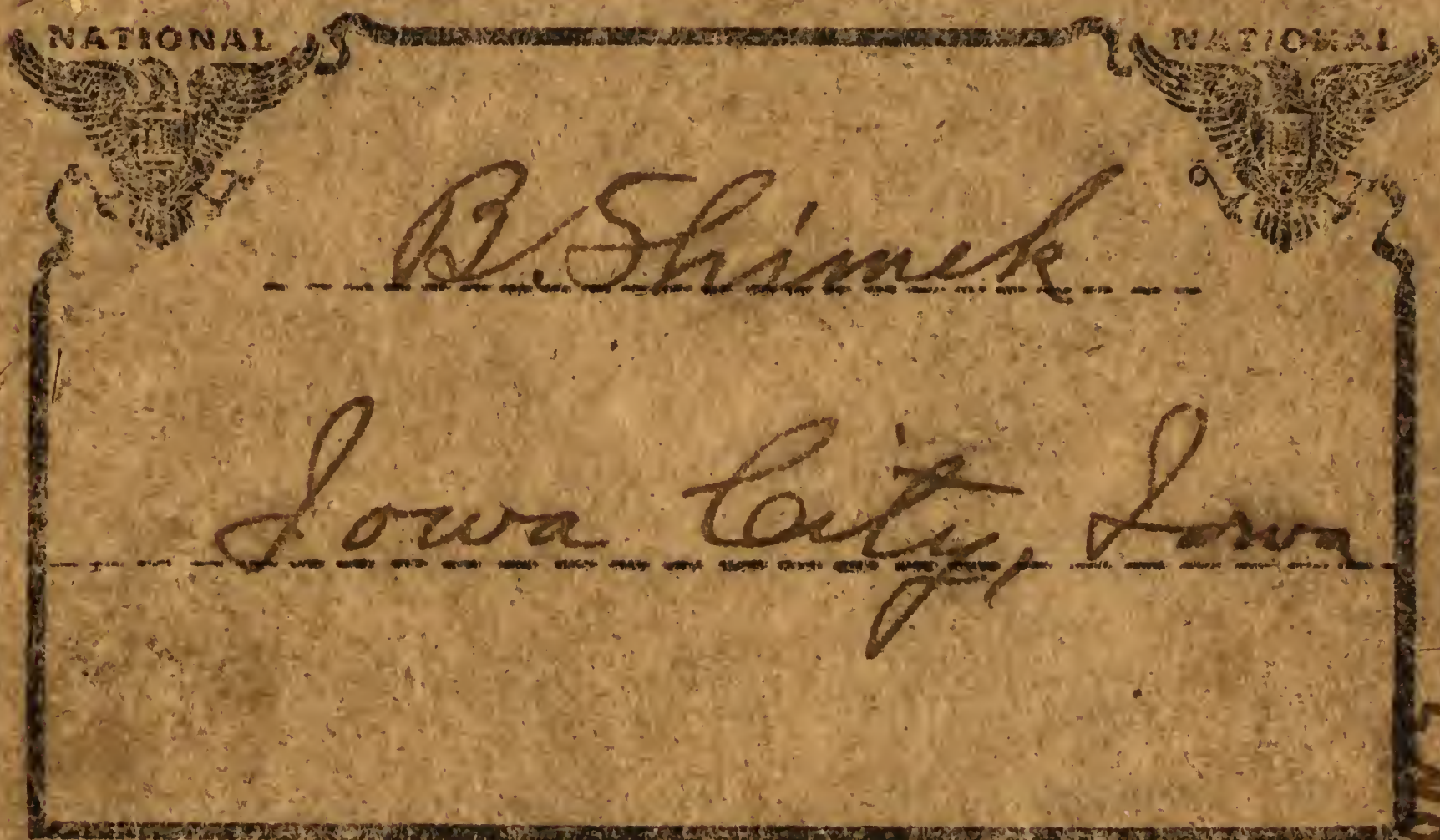


O.K.

1921

MCGREGOR AUG  
CLEAR LAKE SEP  
MASON CITY SEP



Reward for return  
of this book!

KOSSUTH CO.  
PALO ALTO CO.  
CLAY CO.  
OSCEOLA CO.

LYON CO.  
JOY CO.  
BLAIR bridge  
MID. VALLEY  
~~ADAMS~~ CO. SHELBY CO.

BAYFIELD  
FRUITLAND

LIST OF PLANTS FOR SECTIONS.

MCGREGOR PROGRAM.  
MCGREGOR PLANTS

Genus  
 Sanguinaria  
 Hepatica  
 Trifolium  
 Hydrophyllum  
 Utricularia  
 Suckers  
 Linnaea  
 Asplenium (one)  
 Amorphia (deformed)  
 Petalostemum (petals united)

Species

Cultivated

Native

Dahlia  
 Gladiolus  
 Narcissus  
 Amaryllis  
 Lobelia  
 Camelia  
 Salvia  
 Cyclamen  
 Verbena  
 Clematis  
 Ageratum  
 Spiraea  
 Chrysanthemum  
 Asparagus  
 Abutilon  
 Agave  
 Azalea  
 Begonia  
 Catalpa  
 Iris  
 Rhododendron  
 Wisteria

Anemone  
 Croton  
 Hepatica  
 Ranunculus  
 Lobelia  
 Magnolia  
 Oxalis  
 Phlox  
 Lasonfrans  
 Spiraea  
 Trillium  
 Yucca

# Modified Scientific

Alyssum (Sweet)  
 Phlox (Perennial)  
 Asparagus (Fern)  
 Aster (Wild)  
 Dandelion (Farm. Herb. Com.)

Geranium  
 Helianthus  
 Nicotiana  
 Juniper  
 Zinnia  
 Lily  
 Peony  
 Rose  
 Aconite

Wrong application  
 Geranium  
 Nasturtium  
 Syringa  
 Aster  
 Calla

# Specific Name

Japonica (Cydonia)  
 Oleander (Nerium)  
 Clematis  
 Maize (Grain) - Zea mays  
 Calamus (Acorus)  
 Tabacum (Nicotiana)

# Mistaken common names

Rock Rose  
 Grass for sedge  
 Blue-eyed Grass  
 Yellow-eyed Grass  
 Bell-grass  
 Water-lily  
 Primula

Black Building - Englewood

To Mc Gregor, Ia. 1921

Sat., Aug. 6

Left Iowa City at 2:55 PM. for  
 Cedar Rapids - A quiet, murky, cloudy  
 day.

To Toddville - the most common  
 plant in flower is Asclepias  
 verticillata in large patches  
 Then Euphorbia corollata  
 Occasional Liatris pycnostachya  
 is almost out of flower.  
 Asclepias verticillata is common  
 in large patches to Cedar Pt.  
 Buchanan co -

Beyond Walker look patches  
 of Pycnanthemum flexuosum in rather  
 low places. The floral aspect  
 white! Pycnanthemum flexuosum  
 adds to effect.

after a  $2\frac{1}{2}$  hrs. wait at  
Portland we reached  
McMurr at 1:06 am.  
and put up at the Scenic  
Hotel (the old Zimmermann).

Sun. Aug. 8, 1921

arrived at 9<sup>00</sup>. Went up  
to the cottage, and had  
luncheon with the neighbors, the  
Jaynes' of Decatur.

In the afternoon we had a  
meeting as per program & I  
responded to the address of  
welcome by Dr. Walter, the  
Mayor, & Miss Chablin.

In the evening the Union  
service was held at the  
Methodist Church,  
, and I read the

28<sup>th</sup> Chapter of Job.

Prof. Hoby read an address &  
Dr. Oberholser gave an illustrated  
talk on Economic Value of Birds.

A beautiful, clear, cool day.

Mon. Aug. 8, 1921

Awoke at 6<sup>15</sup> & went down. Took  
breakfast at lunch room.

Another fine, clear day. The  
night was quite cold.

Went down the track towards  
Pike's Peak. Climbed up on front  
bluff, collecting material.

Also collected on top of Pike's Peak.  
Then went down to Pictorial Rocks  
through woods & collected plants  
(see specimens)

Returned at noon.

In the afternoon the whole party went to the Toront.  
 Pt. was washed along road  
 & noted oaks, ash, birch,  
 etc. The prairie opening in  
 woods - on higher point, is still good.  
 This is an elevation of St. Peter  
 H. & this evidently prevents  
 development of ordinary forest  
 trees. (Only a few *Q. macrocarpa*  
 & *Q. macrocarpa* appear chiefly  
 on lower.) The road also  
 probably causes rapid loss  
 of water. Result drying  
 out, by sun & wind, no shelter,  
 hence prairie.

Collected almost no plants.  
 Returned for supper & in evening  
 home. Kay. Harlan came in.

Tues., Aug. 9, 1921

This is "government day," and  
 I have little to do, except  
 to take up my work.

Went into deep woods on Heights  
 towards St. Peter & prairie opening.  
 Collected deep woods plants, &  
 then went to opening & collected  
 plants.

After luncheon I worked  
 on N. slope of Heights, in the  
 woods S. of road.

Found a few mollusks,  
 mostly under *Pop. grandidentata*  
 sticks. Recall:

<i>Punctum pygmaeum</i>	<i>Bifidaria contracta</i>
<i>Carychium exile</i>	<i>Strophilops virgo</i> <sup>2</sup>
<i>Zonitoides albiculus</i>	<i>Pyramidula attenuata</i>
<i>Helicodiscus parvulus</i>	<i>Polygyra thyroidea</i>

Also found a few slime molds & fungi.  
 The woods, however, are much

drier and poorer than last year.

Collected flowering plants, &  
took train to Miss Carrough.

Had shoes mended, got prescription,  
dinner, went to Barber-shop, &  
return to Heights.

After supper went out after  
oaks, Populus, etc. for class use.

In the evening saw fine film  
of Niagara. A remarkable

feature were the sketches of  
the Niagara map & topography  
by Dr. Atwood, now President of  
Clark University (Worcester?)

Wed., Aug. 10, 1921.

Rained in early morning.  
I went along road to St. Peter S.S.,  
to get more acorns, hickories, for  
use of school exercises.

Prof. Keys was sick and Dr.  
Weeks took his place. I called  
on outstanding clippers of:

1- Oaks - *Q. alba*, *macrocarpa*, *Michauxii*,  
*Q. rubra*, *velutina*,

2- *Ulmus am.*, *U. fulva*, *Ostrya*,

3- Green Ash, Box Elder, Bittersweet,  
Prickly Ash.

4- *Alnus glabra* & *Corylus*

5- *Populus grandidentata*, *P. tremuloides*

Suggested trees for study. You  
get material & trim tree, cut  
smoothly close to trunk, all  
crossed branches, broken ones, etc.

Seasonal differences.

Variations in size.

In the afternoon we went (rode)

to Pike's Peak. I went with

Mr. & Mrs. Nichols of Sioux

City (former member of Legislature)

Capt. Bichel explained "Buffalo-

mound". Weeks called attention

to fact that birds should be

observed in morning. A very

small boy asked him why he

had his field-glass & he said

"to look at pretty girls", &

promptly the youngster replied,

"Let me look". I talked

of old-time upland forest, -

scattered large trees with almost

no underbrush. The two large

white oaks in "buffalo mound"

are probably 150 - 250 yrs. old.

(Diameter not measure of age.)

Storkey talked of fungi coming

not in trees.

At the Pike's Peak lookout

Storkey discussed the geology

& read Savary's account. I

called attention to bare slopes

on Wisconsin side & Timber

bluffs on Iowa side. On east

every valley & gulley was marked

by trees.

The storm was very threatening

& some drove home. The tide

was about 110, but the

majority however walked

down the slope through

canons. Spirit was

very fine. Most of us

Prof. McDonald & Mrs. also on  
trip.

were taken back in Mr. Bell's  
fine launch "Arbutus".

On east side we could see  
clearly three zones of  
vegetation on the bars.

It rained part of afternoon  
but the trip was fine.

Backed to Heights. & after  
supper I went to meeting.

We also read an address on  
Bird-Languages & Story on

Frangy. [Mr. Harlan was  
with us on the trip & talked

of Marquette & Joliet coming  
down the Wisconsin, &

of great Council at Prairie  
du Chien which marks the  
Mississippi the west boundary

of the colonies. <sup>also spoke in</sup>  
evening.

Rained again in evening.

We planned to go to Muscoda  
(Dr. Oberholser, Mr. & Mrs. Carl Bickel,  
& Mrs. Willis Bickel).

The couple (the lady small, dark)  
from Valley Jr. are

Thurs., Aug. 11, 1921

It was still threatening rain.

We crossed the Mississippi to  
Prairie du Chien by ferry at

9:15. In the party were Mr. & Mrs.  
Carl Bickel, <sup>+ daughter</sup> Mrs. Willis Bickel, Dr.  
Oberholser & myself. Drizzled a little.

We drove to Muscoda, & while  
the people were getting dinner at  
the hotel I went to the Jack Pine  
Dunes just west of town.

The dunes have Jack Pine (P.

*Banksiana*) will scattered over them,  
but there are open places. For  
the most part the dunes are  
fairly well (rather thinly) covered  
with sedge & grasses, just now  
my arrow grass being the most  
conspicuous. A few *Q. velutina*  
are scattered about. I found  
a number of interesting plants.

Here of the sand-flora proper:

*Cyperus Schumacheri*

*Carex cephalophora* ?

Arrow-grass.

*Hudsonia* —

*Prunus pumila*

*Fragaria floridana*

*Zalium rugospermum* ?

Here which are prairie:

*Panicum virgatum*

" *Scribneri*

*Phytalis pubescens*

*Solidago nemoralis*

" *missouriensis*.

Along the Wisconsin alluvial  
timber *Lobelia cardinalis*  
was common. On the banks, etc.,  
*Gerardia grandiflora* was  
not rare.

We returned & Dr. Oberholser  
lectured in evening on the  
work of the Biol. Survey (Illus.)

Friday, Aug. 12, 1921

In forenoon presided, Weeks & Keyes talked.

In the afternoon Dr. Stokes & I took botanists into woods. Saw slime-moulds <sup>Fungi</sup>, etc., & examined plants.

In the evening Dr. Stokes gave illus. lect. on life history of ferns.

I tried to show possibilities of the McGregor region:

Pollination; seed-dispersal; special habitats, swamp, woods, etc.; variation in plants, - oaks, etc.; etc.

Sat., Aug. 13, 1921

The crowd went to Clayton by rail (brought *Sullivania oblonga* & *Asplenium angustifolium*). I was somewhat lame. Went to upland woods on the Greer Heights & under logs of *Populus grandidentata*. I collected slime-mould & fungi, and snails.

In the afternoon I presided while Keyes talked on local Indian Name Groups & Overholser on bird migrations. A heavy rain storm came up.

In evening I presided & Bennett talked on the Greer & the Wild Life School (Illust.). The evening cool & clear.

Sun. Aug. 14, 1921

Capt. & Mrs. Michel & Dr. Oberholser  
& I, started at 10 am. for a trip  
to the southern part of the county.

We drove to Garnaville, and then  
on to Millville. From McGregor  
we rose to road leading to Pikes  
Peak, & then with ups and downs  
we passed over the high plain,  
cut up by valleys. From Garnaville  
we traveled S. E. to Millville.

The uplands in Garnaville &  
Jefferson townships are characteristic  
of the uplands of this region;

There is a high plain, cut  
by valleys. All of this upland  
plateau was prairie. The  
valleys and cañons are timbered  
throughout.

The upland material does  
not look like loess. It seems  
to be more pebbly-like, and its  
color is a dull brownish.

At Millville we purchased  
supplies for a lunch, and  
drove along the Little Poudre  
river to Graham. It is really  
only a large creek, but  
its valley is distinct, with  
rather prominent bluffs &  
limestone ledges. We tried  
to get into Pinecreek Hollow,  
but a farmer told us that  
the road was not passable  
and it appeared so. He said  
that the Hollow had not  
been cleared, and was still a  
wilderness.

We drove on to Colerburg and expected to visit Twin Springs, but the road was impassable because of a washed out culvert, and we pushed on to Colerburg, and thence to Fountain Springs, on the road to Greeley. Here is an old mill, & a stream of water shoots out at a considerable height. We crossed the bridge & went up to a spring in the valley some distance up. This spring bubbles up from gravel, and agates are frequent here.

I collected a few plants. Met George Banta<sup>wife</sup>. This is near his farm. We then drove to Edgewood, and thence north to

Bixby Park. Visited the Ice Cave. Noticed following

Trees & shrubs:	
<i>Ulmus amom.</i>	<i>Carya</i> <sup>small</sup>
<i>fulva</i>	<i>W. Hickory</i>
<i>Acer saccharum</i>	<i>Acer negundo</i>
<i>Juglans cinerea</i>	<i>Pinus strobus</i>
<i>Picea mar. b. p. p.</i>	<i>Quercus velutina</i>
<i>lenta</i>	<i>Lilia american</i>
<i>Salix cordata</i>	<i>Taxus canadensis</i>
<i>longifolia</i>	<i>Alnus incana</i>
<i>Juglans nigra</i>	

This is place well worth visiting. On the ledge I collected a few plants, including *Cryptogramma stelleri*. We then drove to Elkader, via Littleport and Communia. The uplands show some cutting up of a great plain.

Near Littleport, well down in valley, I saw a cut with what appeared to be loess, with gravel

H. B. James, Edgewood, Ia., wants  
to know about the shrub from  
Pike's Park.

under it. Found *Prunus pennsylvanica*  
along road, S. of Elkhader.  
The upland view is here fine,  
and this was all really  
prairie on the uplands.

Beyond Elkhader we again came  
up on uplands, with fine view.  
The roads are being repaired, & are  
bad. We were stuck for over half  
an hour. <sup>along road everywhere</sup> *Linaria*  
*vulgaris* was very common, in flower.

We reached McGovern at about  
8<sup>00</sup> PM. I went up hill, changed,  
and attended evening meeting  
at the Congregational Church.  
Prof. Shirling talked on shrubs, &  
planting for decoration, etc.

He followed a film  
by the Educational People, on  
plants. Many errors in the

legends. Here are some.

- 1 - It said no plants where  
no soil.
- 2 - Oaks grow on gravelly hills
- 3 - Water plants grow here,  
& thicker stems than  
marsh plants.
4. Dunes have plenty of  
water.

Monday, Aug. 15, 1921  
I went down in the morning, &  
started for Pike's Peak, taking  
a lunch. I collected mosses,  
liverworts, fungi, etc., - a goodly  
lot. Also a few vascular plants.  
At 2<sup>00</sup> PM. I met the party  
on top of Pike's Peak, where

each instructor talked, I discussed the open woods of long ago, with large trees & little underbrush, and also distinctive work of fungi on trees, and their beneficial work on the leaf-mould. Also talked on prairie openings.

We returned down to Pictou Rocks, & walked along RR. to the ferry.

The steamer excursion was given up, no boat coming.

In the evening I filled in by talking on Plant Habitats, etc., & Dean Kay talked on Antiquity of Man.

Tuesday, Aug. 16, 1921  
Since the trip to the Loyalist Park (Wisconsin) was given up (it rained most of the day) we pushed the Wednesday program back to Tuesday.

Dr. Weeks talked on value of bird-study, and I talked on common names & conservation of wild flowers. Rained all the time, yet 75 were present.

In the afternoon Prof. McDonald talked on methods of forest handling & I gave an exercise on Composites (using material). 80 were present & all remained.

In the evening Prof. A. E.  
Shirling of the Polytechnic  
Institute of Kansas City, Mo.  
talked on insects, & Dr.  
Bennett showed slides  
of pictures taken the other  
day. Cloudy in the evening,  
but no rain.

Wednesday, Aug. 17, 1921

A very heavy rain, with a magnificent  
lightning display, came up after  
midnight.

In the morning everything was  
wet & I spent a part of the <sup>bird study</sup>  
forenoon (after introducing Dr. Weeks)  
in mounting Alouatta, etc. Dr.  
Kees talked on the mounds of the

Ochology region.

After lunch we had a little  
botanical conference in the tent,  
and then went to the St. Peter SS.  
prairie opening on way to  
Lohrnt. We noted the prairie  
plants, and identified 54 kinds,  
besides border & stray forest  
plants.

We then went to the mound,  
near the Lohrnt, and saw  
excavation conducted by Prof. Kees.  
A few Muro shells (fragments,  
or worn shells) were found  
in it. In the evening Dr. Oberholser  
talked on conservation of large mammals,  
and I on the causes of the  
prairies.

Thursday, Aug, 18, 1921

I had nothing A. M. & P. M.

MacDonald and Shirling took the afternoon for field-trips. Went out with W. N. C. Elwell, in Canuck, to San Mayill bottoms. I collected some fungi, but few species were found, and these nearly all on logs of Am. Elm. Saw no slime-molds, nor land snails. Collected many plants. Mosses were plentiful but of few species. Saw six oaks. *Q. bicolor* is frequent. One specimen measured just 4 ft. in diam. (12.5 ft. in circumference at breast height. Large bur-oaks are also frequent, and smaller *Q. elliptica*,

not leaves & acorns from these *Q. elliptica* trees.

This is on a somewhat elevated bench on which about 100 mounds have been found, some empty.

I found one large *Q. bicolor* in which rougher bark (not quite so rough as in *Q. macrocarpa*) was scaling off, & finer, light-colored bark remained. Same as my bur-oaks & white oaks at Hornstead & Iowa City.

Also collected plants along R.R. Found large patch of *Gentiana* <sup>florida</sup> ~~altissima~~.

Obtained a few shells from clam-man near San Mayill.

We returned at 6<sup>30</sup> PM. In the evening the Commercial Club held a meeting (with a little banquet) at which all the members of the faculty spoke, and also several of the citizens and visitors. <sup>in fine spirit</sup> After the meeting I worked until 1:30 AM.

A committee was appointed by the Club to consult with the faculty as to best ways & means for perpetuating & developing the Wild Life Conservation School.

Friday, Aug. 19, 1921.  
Went out at 5<sup>25</sup> AM. to the Pictured Rock cañon. Found *Pogonia pendula* in flower. It was on a slope in woods above the upper spring (above the Bridal Falls, at base of a big Hard Maple, grew among leaves on ground.

Also collected a fine lot of *Anthems* on sandstone opposite Pictured Rocks, & lower, on same sandstone, a small *Limonite*. Returned at 8<sup>00</sup> AM.

At the morning meeting every member of faculty talked.

I talked on "cruelty in Nature".

In the afternoon I had a conference, showing *Q. bicolor* & *Q. ellipsoides*.

and answering questions.  
A storm drove us in, I  
went down after the storm to  
the town.

In evening a Vienna party &  
three talks. I answered questions  
on shatter belts, & bending of trees.

Sat Aug. 20, 1921  
At Chas. H. Kramer's Drug Store  
there are three heaps of dry  
"roots". Hydrastis <sup>2.75 a lb.</sup> canadensis;  
Ginseng & Cypripedium, all  
are local. Mrs. Elwell has  
a heap of Cypripedium "roots".

At 1 PM. (Friday) we had  
a conference with the Committee  
of the Commercial Club.  
Present, Messrs. Dambenber,

Lux, Capt Bickel, and two others.  
Agreed that name should be changed  
to The American School of  
Conservation. (In the evening at  
the general meeting this was  
adopted (as part of Resolution Com.  
report. This was a fine report  
prepared by Miss Anna <sup>M.</sup> Washburn,  
chairman of English Dept in the  
La Crosse High School. With her  
was the teacher of Biology, Miss  
Bertha Shumann, also Annie  
G. Ford, of the same school.) but  
reconsidered, & then left to  
a Committee <sup>of 3</sup>. Names suggested:  
(by Mrs. Himes) The School of Wild  
Life & Conservation. (by Mrs. Bickel)  
The <sup>Am.</sup> School of Conservation &  
Wild Life. Finally Saturday

<sup>Am</sup>  
I suggested the School of  
Out-of-Door, but Dr.  
Oberholser thought it would  
not meet their requirements.

Finally Capt. Bickel suggested,  
The American School of <sup>Conservation</sup>  
The School of Wild Life & Out-of-Door.

The spirit throughout the  
school was fine, and all  
are enthusiastic boosters.

The Comm. Club will  
raise a larger fund &  
the work will be more  
varied. Dr. Oberholser  
thought it would be possible  
to get the Fisheries Bureau  
interested.

Packed some late at night,

Saturday, Aug. 20, 1921

I arose at 5<sup>30</sup> AM. & finished  
packing. Went down with Bickel  
& finished packing the ~~papers~~  
Mrs. & Mrs. <sup>W.H.F.</sup> Elwell want  
me to come for an Eastern Star  
meeting.

We left at 2:14 PM. for  
Dubuque & Cedar Rapids. I  
checked two large trunks (+  
my suitcase) and sent two  
hand trunks by mail and a  
large trunk full of skins by  
express.

The bluffs are close to the RR  
practically across all of  
Clayton Co. & much of Dubuque.  
As Dubuque & a few other  
points (including valleys & tributaries)

the bluffs recede.  
Opposite Sabula they are  
rather low & rounded, &  
with not so much timber, -  
probably cleared.

A swamp just S. of  
the RR. at Sabula has  
quite a lot of Helianthus,  
now still in flower.

We left Sabula at  
6:45 PM. for Marion & Cedar  
Rapids.

For the last three days I  
have had a bad case of  
bronchitis, from wetting

Sep. 3, 1921 Sat

To Dyersville, Mr. Gregg, etc.  
Left Iowa City at 2:55 PM, & Cedar  
Rapids for Delaware at 5 PM.

The day has been hot and  
quiet, mostly cloudy. A fine  
steady rain continued until  
nearly 10 AM.

Everything looks fall-like. Corn is  
drying rapidly, Melilotus alba  
is all dead, and flowers are  
mostly Helianthus & Solidago, with  
few Cirsium

<i>Liriodendron</i>	
<i>Liatris pycnostachya</i> fl.	
<i>Helianthus grosseserratus</i> fl.	
<i>Solidago rigida</i> fl.	
" <i>perovskiana</i> fl. (ab)	
" <i>serotina</i> fl. (ab)	
" <i>lanceolata</i> fl. (ab)	
<i>Sagittaria arifolia</i> fr.	
<i>Andropogon furcata</i> fr.	

*Veronica virginica* fr.  
*Aster multiflorus* var.  
*Solidago canadensis* fl.  
*Silphium laciniatum* fr. (low)  
*Echinops cyathigerus* fl. (low)  
*Cirsium discolor* fl.  
*Prenanthes alba* woods  
*Eupatorium verticillatum* woods  
*Artemisia ludoviciana* fr.  
*Lupinus canadensis* fr.

June 20.

*Solidago canadensis* fl.  
*Silphium* fl.  
*Meum angustatum* fl.  
*Meum*  
*Sorghastrum nutans* fr.  
*Helianthus grosseserratus* fl.  
*Helianthus* ? fl.  
*Cirsium discolor* fl.  
*Andropogon furcatus* fr.  
*Andropogon scoparius* fr.  
*Momordica punctata* fr. along river  
*Rhus glabra* fr.  
*Gentiana flavida* border  
*Sparganium angustifolium* fr.  
*Eragrostis canadensis* fr.  
*Aster multiflorus* var. fl.  
*Melilotus alba* fl. (little)  
*Artemisia ludoviciana* fr.

Yellows decidedly dominate!

*Aster laevis* fl.  
*Liatris punctata* fl.  
*Helianthus scaberrimus* fl.  
*Potentilla arguta* fr.  
*Anemone canadensis* fr.  
*Elymus canadensis* fr.  
*Lupinus canadensis* fr.  
A white *Liatris scariosa* fl.  
*Silphium laciniatum* fr.  
*Silphium* fl.  
*Echinops cyathigerus* fr. (low)  
*Hardy rubra* fr.  
*Liatris pycnostachya* fr. (rather low)  
*Smilax latifolia* fr.  
*Salix humilis* fl.  
*Asclepias syriaca* fl.

Monticello.

*Kochia scopulorum*  
*Sparganium angustifolium*

Reached Delaware at 7:24 P.M. &  
changed to Ill. Cent. Ry. Left at  
8:12 P.M. for Davenport. It is now  
clear, and promises well. Rained

a little here at Delaware in the morning.

Reached Dyersville at about 8<sup>30</sup> & put up at Dyersville House.

John B. Witt } this is a sign  
Anna M. Witt } in Dyersville!  
Lawyers }

Sep. 4, 1921, Sun.

Came at 5<sup>45</sup> Am. & prepared for trip to Pine Hollow.

Had

drive me to a point 2 mi. W. &  $\frac{1}{2}$  mi. N. of Luxemburg. I then went N. to Pine Hollow.

Just before entering the small valley leading to it I found a place much cleared, with stumps & a few logs. Collected fungi

(I found that all my so-called Clayton co. localities for plants & shells in this region are in Dubuque co. - Delaware also?)

and a few slime molds.

Then followed Pine Hollow to outlet. The best part is all in Dubuque co. Indeed, the best part ends on S. line of sec. 6, a mile from N. line of county. The walking is rough. There are no paths or trails. It rained last night, & the morning was foggy & very misty. Sprinkled a little in forenoon. Then cleared, - & hot!

I reached Graham at about 4 P.M. & terrific rain storm came up. Left Graham at 5<sup>00</sup> P.M. & walked about a mile over very slippery road. Then a young farmer, Wesley Welsh

came along & took me (by  
team & buggy) to Millville, -  
for 3<sup>00</sup>.

Put up at (Donnell's?) for  
the night. Bedbugs, - I  
kept on the floor to escape them.

Sep. 5, 1921 Mon.

Left Millville at 5.<sup>45</sup> AM. The  
road to Millville siding (1 mi.) was  
very muddy. I then walked down  
the track to Turkey River.

Quite a heavy fog after the  
rain. Every morning on this  
trip, - to Mc Gregor, - was foggy.

I took the train at 7.<sup>18</sup> AM.  
for Clayton. Left my stuff  
at the station, got my package  
of papers, and walked to the first

sandpit S. Went up the cañon  
a short distance. Found  
*Asplenium argutifolium*, *Adiantum*  
*Goldianum*, *Lullinaria olivacea*,  
etc. Saw some very fine *Ceanothus*.  
Collected mosses on the A. Peter  
S. S. ledge, & also picked up  
a few mollusks in drift  
along the little creek. Had  
a boy with me, - 13, - whose mother  
left the father. He told me his  
experience. Both have to work.

I left for Mc Gregor at 1.<sup>00</sup> PM.  
At Mc Gregor I packed plants  
from Pine Hollow & Clayton, & worked  
a little along road leading up  
to Mc Gregor Heights. Found *Winnia*  
*little* Composite weed, - & a few  
other plants.

Sept. 6, 1921, Tues.

In forenoon went up river in the "Arbutus", to clambers above Marquette. Found one *Margaritana monodonta*. Mr. Elwell says he will get more for me.

We had started out with Mr. Elwell's Caruch, but had a break-down, & Mr. Fred Bell took us in the "Arbutus".

We also got roots of *Lobelia cardinalis* on island.

Sent roots of *Asplen. autumnale* & *Lobelia cardinalis* to John Springer & Ella. Went up on Mt. Grey Heights, & collected fungi & slime molds in woods, (also a few Malheur) and prairie plants in St. Peter's opening.

In the evening I attended the E. Star meeting, & talked on the obligation. Told Pinnacle story.

Got to bed at 1<sup>00</sup> AM. (I stopped at the scenic Hotel.)

Sept. 7, 1921 - Wed.

Miss Klein (our Miller's friend) drove R.R. Adams & me to Pike's Peak (Miller was along).

We worked down the St. Peter S. stone slope (below top limestone) & collected mostly mosses, liverworts & lichens. Then we worked in the Pictured Rocks cañon, getting mostly mosses & some fungi. Found *Miss Cavanaugh* *Atrichum* on limestone block, just S. <sup>N. end of</sup> of railway between R.R. & road, S. of old R.R. station at McGregor.

Returned after 2<sup>00</sup> P.M. packed,  
and went up on open wood slope  
on S. side of McGregor Heights,  
just N. of Lucas & Richards.  
Found Miss C's Rhamnus?, Ceanoth  
ovatus; Crataegus (esp. in fr.), etc.  
Also an apple "run wild".

I took rest of hrs. from two  
trees of the Rhamnus.

Spent evening in packing.

Sep. 8, 1921, Thurs.  
Shipped basket (to Miss C.) and  
a small box with Ceanothus notes  
for return.

Left McGregor for Decorah  
at 8<sup>00</sup> A.M. Reached Decorah  
at 10<sup>55</sup>. Took lunch at  
"Shorty's" restaurant.

At 11<sup>37</sup> A.M. Wm. Koecker's  
Ford driver took me to block  
(or ledge) of St. Peter's P. Co., near  
mile N. E. of Hespar, & across  
a 40 ft. south of state line.  
A shower (with few hail) came  
up. I collected Polygonum  
douglasii (fl.), P. tenue (fr.), Brunna  
parvula (lf.); Potentilla tridentata  
(fr.), Abroma (fr.), Betula (fr.),  
Polygala, Lichia, etc. Also  
many mosses, few fungi & some  
lichen. Saw no Woodsonia.  
Collected Selaginella rupestris.  
Returned to Decorah just in  
time to take train for Emmet &  
Charles City. Left Decorah at  
3<sup>15</sup> P.M. Reached Charles City  
at 5<sup>52</sup> P.M. & changed to Ill. Cent.

station, for train due to  
leave at 6<sup>45</sup> PM.

Left Charles City at 6<sup>45</sup> &  
reached Storyville at 8<sup>13</sup>.  
(The factories at Charles City  
seem to be dead.)

Met George at station & then  
Mamma, Anna, Jo, Ann & Vlada.

Sep. 9, 1921, Fri.

Packed all forenoon, sent  
press of plants to Mrs. Cavanaugh.

Packed up & left with Ma at  
12<sup>15</sup>, George taking us to Lyle.

Took C. & W. Train at Lyle  
for Mason Co. (at 2<sup>00</sup> PM, the  
at 1<sup>43</sup>).

Day bright & quiet.

Reached Mason City at 2:50 PM.

The prairie plants along the RR,  
are mostly rather old-looking.

Helianthus, Solidago and Aster seem  
to be the conspicuous flowering plants.

After arranging for mail, express,  
etc., we took the 4<sup>15</sup> car for Clear  
Lake.

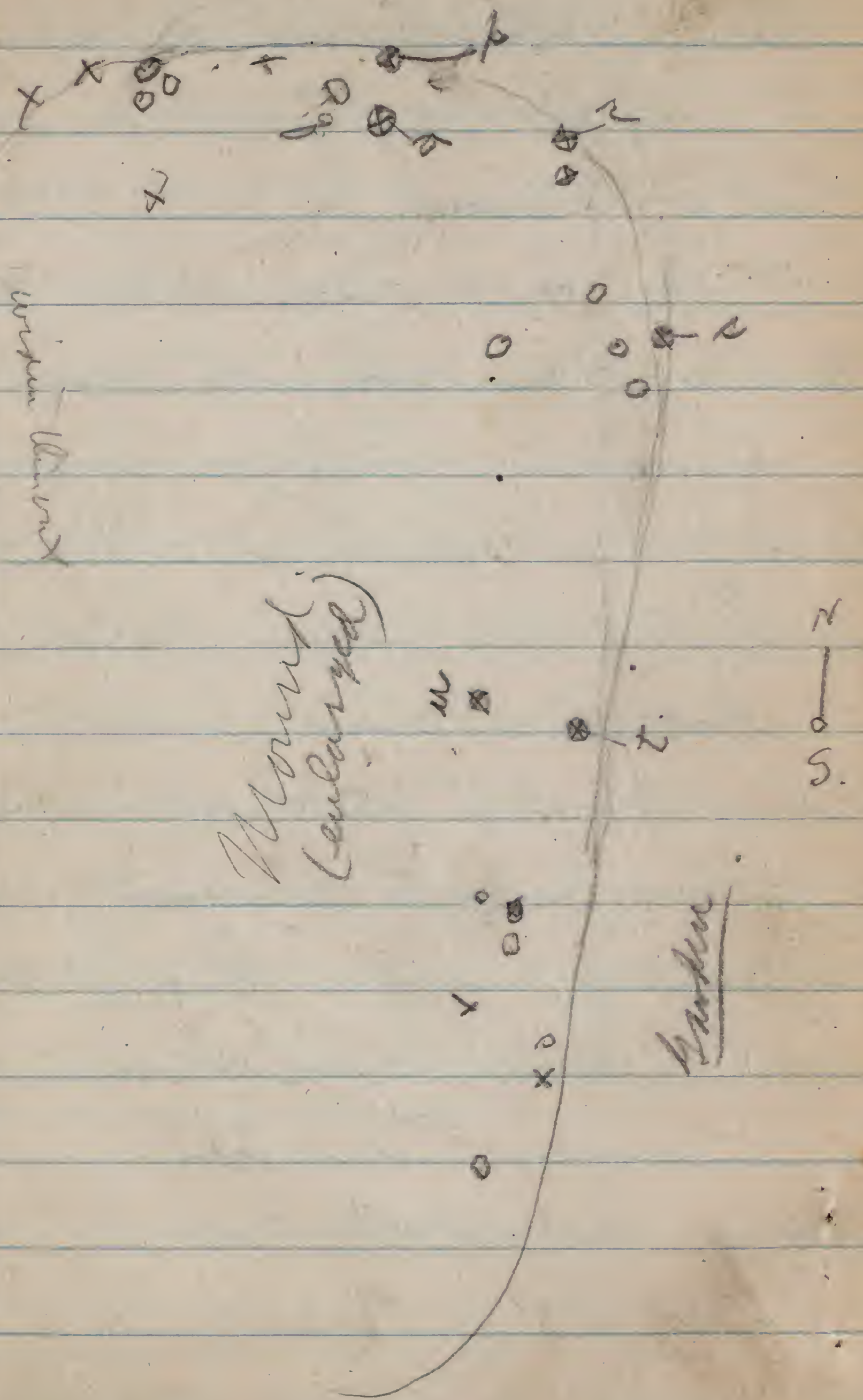
Sep. 10, 1921, Sat.

Rained early in the morning.

I looked about for oaks. Collected  
Shreve's Red Oak & Burr Oak acorns.  
(Numbered by letters, - pro tem.)

Oak (a) - A bur oak 23' - diam. - fairly  
good condition.

Oak b - Burr oak - 18' - diam. Fairly  
good.



Oak c - Schneck's Red Oak - 15' - Fair.

Food acorns only,

Oak d - Schneck's Red Oak - 23'

Rather bushy - good - odd, bulging cups.

Oak e - Red Oak<sup>(?)</sup> - 22'

Good condition. Both lvs. & acorns.

Oak f - Schneck's Red Oak 21' - a low,  
bushy tree, with low hanging branches.

Acorns all hard - picked.

Oak g - Burr Oak - 29' - with big galls on <sup>branches</sup>

The lower part of bark is smooth (coarser  
flakes off) coarser shows upward.

Oak h - Schneck's Red Oak - 20'

One side became crowded,  
(see spec. at cottage) but good.

Oak i - Burr Oak - 17' - Quite good.

(see spec. at cottage). Thick cups, almost closed.

Oak j - Schneck's Red Oak - 28'

Rather sparsely, fairly good. Acorns  
only.

Bark rougher than usually.

k - Schneck's Red Oak - 22' - Fairly

good - all of them are inclined to  
branch low & bark out. Bark  
moderately rough.

l - Red Oak - One-sided & sparsely. Bark  
moderately rough only - 22½'

m - Schneck's Red Oak - 14' - Low, sparsely.

n - Schneck's Red Oak - Triple tree. Largest  
(west) part = 25' - Low, branching.

o - Red Oak? - Rather taller, good. 20'

Modestly rough bark. Most of

these are gray with lichens - Both sp.

p - Red Oak? 12' - broken at top.

q - Schneck's Red Oak - 12'

Acorns only.

r - Red Oak? - 11'

Acorns only.

Oak s - Red Oak? - 14'

Leaning -

Oak t - Red Oak. 20'

Rather low, bushy - young tree.

Oak w. Red Oak? 15'

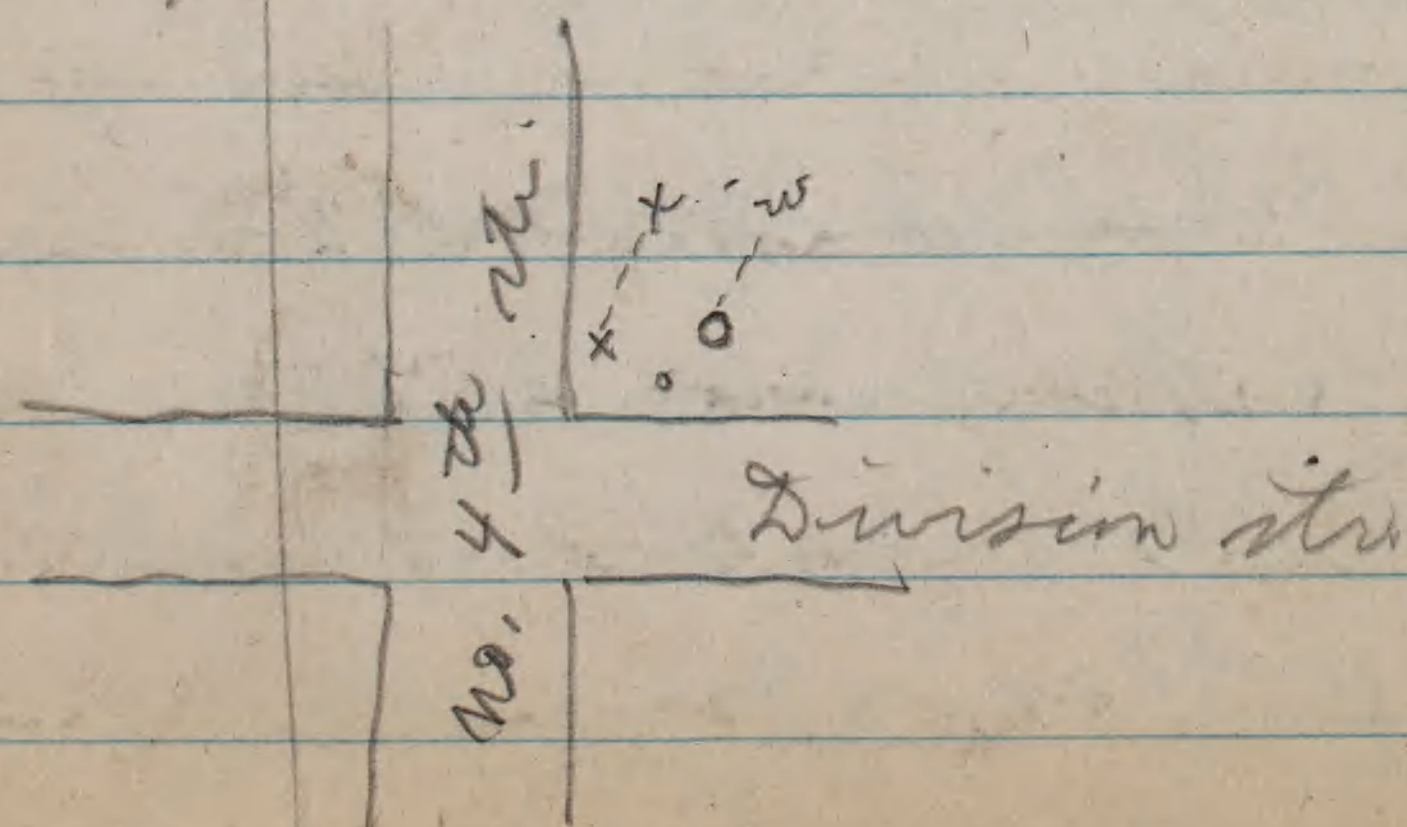
Rather broken - On mound.

Oak v - Schneck's Red Oak 13 1/2'

Double tree <sup>(w.)</sup> - inside dead.

Acorns only.

Went to small park at  
intersection of No. 4<sup>th</sup> & Division  
streets, Clear Lake.



(Discarded B, 2, 1, 0, p. 2.

In SW corner of little park  
I found:

Oak w. - Schneck's Red Oak - fine  
acorns - Diam = 18" low, bushy

Oak x - Red Oak - took acorns  
only.

In the afternoon, at 1:50, I  
went to Mason City for my basket  
& pie.

The day has been partly cloudy,  
and it drizzled a little a couple  
of times. In the afternoon it was  
clearer.

Yesterday (before rain) when we were  
going from Mason Cy. to Clear Lake,  
just E. of the midway station (Emery)  
S. of a <sup>junction</sup> R.R., a willow hedge or  
thicket on S. side of road  
made row next. Drove to base.

Returned to Clear Lake  
after 3<sup>30</sup> pm (at Clear Lake)

Oak A - Red Oak - (Schnecks?) - 21'

Took acorns, only.

Oak B - <sup>Schnecks?</sup> Large, rather low, squatty & branching.

30' diam. Gray with lichen, Not very rough.

Oak C - <sup>Schnecks' Red Oak</sup> Large, low, spreading, 28' - branching

Not many lichen.

Oak D - Red Oak - 22 1/2'

Few lichen - low, branching.

Saw *Prunus virginiana* N. of

RR. 5 1/2 in. in diam. & 35 ft. high.

A Red Oak stump N. of RR., in good wood, showed 98 rings & measured 23 1/2" clear wood, & 25 inch bark, 30 in from ground.

There are logs everywhere, but logs are in here, & place is too clear.

Collected fungi & some lichens.  
Returned to supper & spent evening in arranging materials.

Sep. 11 - Sunday 1921

A cold night, but no frost.

Cloudy, with just a little breeze.

Left at 7:10 AM. for Mason City.

Went out to Big (Buffalo) Slough.

First work from end of car line.

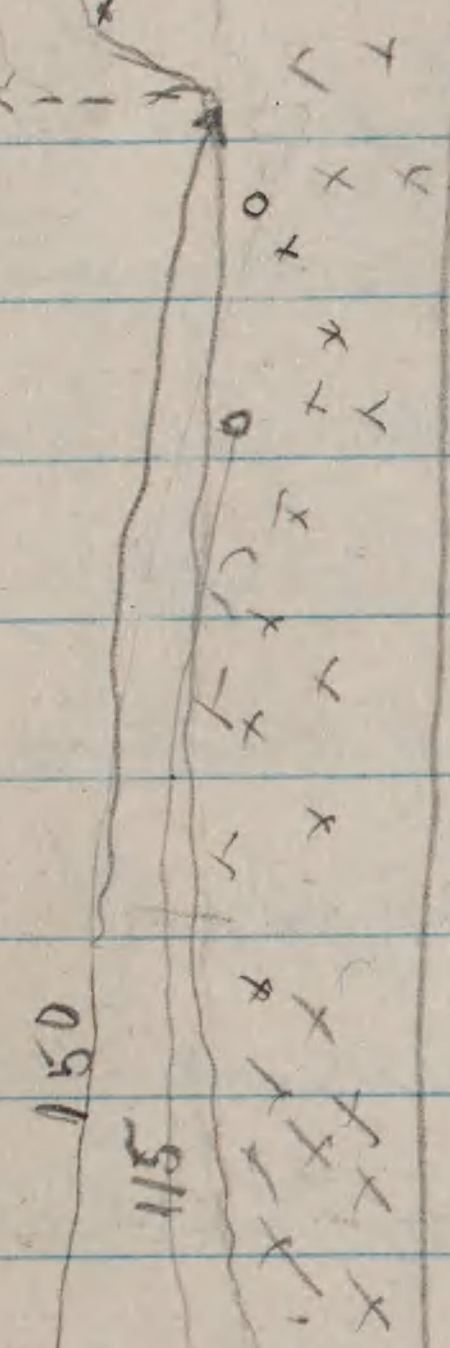
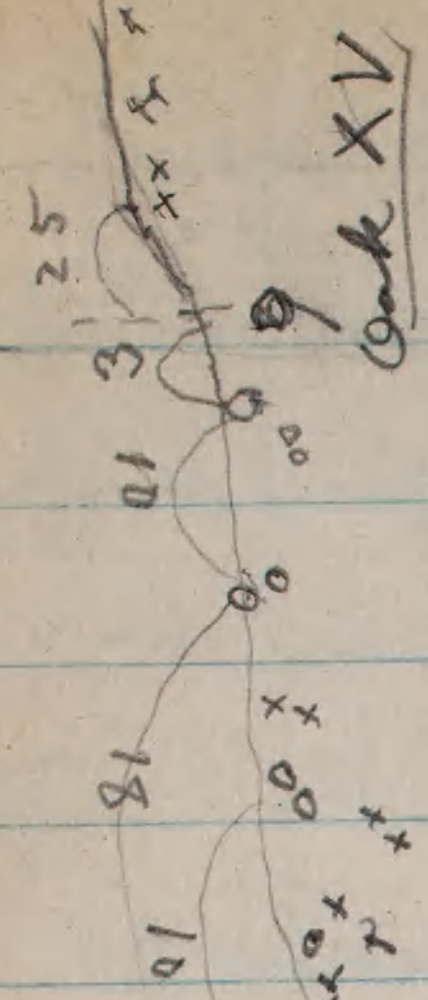
On Kentucky Ave., S. of 16th st.

(S.W. of Ave.) I observed Hills oaks (*Q. elipsoidealis*) as follows:

Oak I is a small *Q. elipsoidealis* 12' diam, this is N. one. It is about same size.

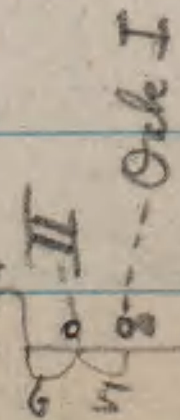
Oak II - 13' - Lower, more branching. Bark reticulate in both, but not rough. Lvs. & fruit.

Mountain Ave.  
174



Worms etc. common  
x = for oak  
o = Q. ellipsoidalis

Sixteenth St. N.E.



Mountain Ave.  
174

all of them are bushy & with bark as in I & II.

Oak III - Q. ellip. 11' - A good many branches in this (or other) dying. Self-pruning but branches stick. Partly striped, acorns.

Oak IV - Q. ellip. - 11' - Like III. Lvs. & fr.

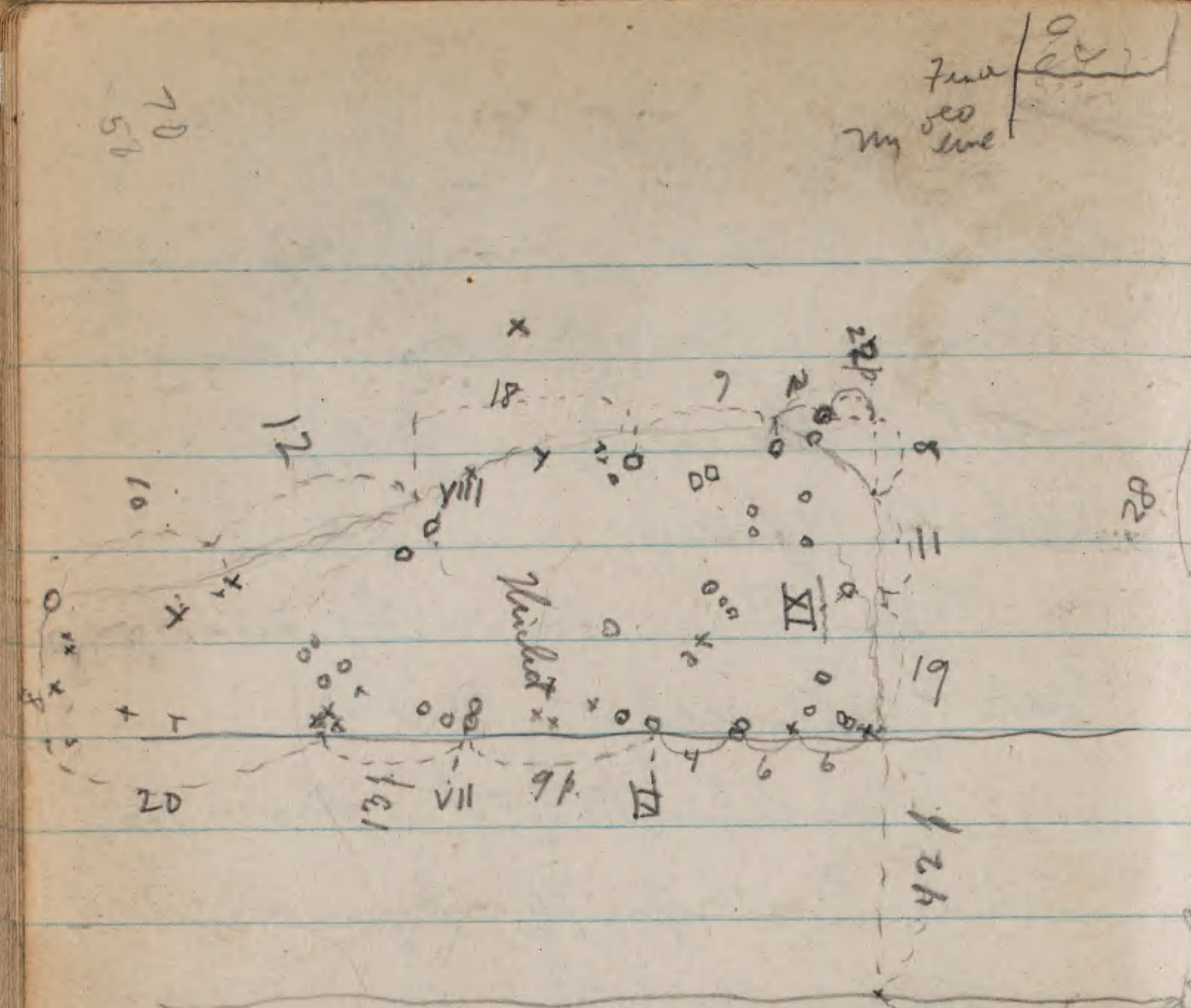
Oak V - Q. ellip. 12' - Very like III & IV. Lvs. & fr.

Oak VI - Q. ellip. 7 1/2' - Rather scrawny.

Oak VII - Q. ellip. 9' - (other two about same or a little smaller (8')) Rather scrubby trees, but much like all others.

Oak VIII - Q. ellip. 13' - a finer tree. Bark same. The one near is very similar. Acorns & all.

Oak IX - Large, bushy, with low branches. Few acorns - 12 1/2' Rather rougher bark than usually. Lvs. & fr.



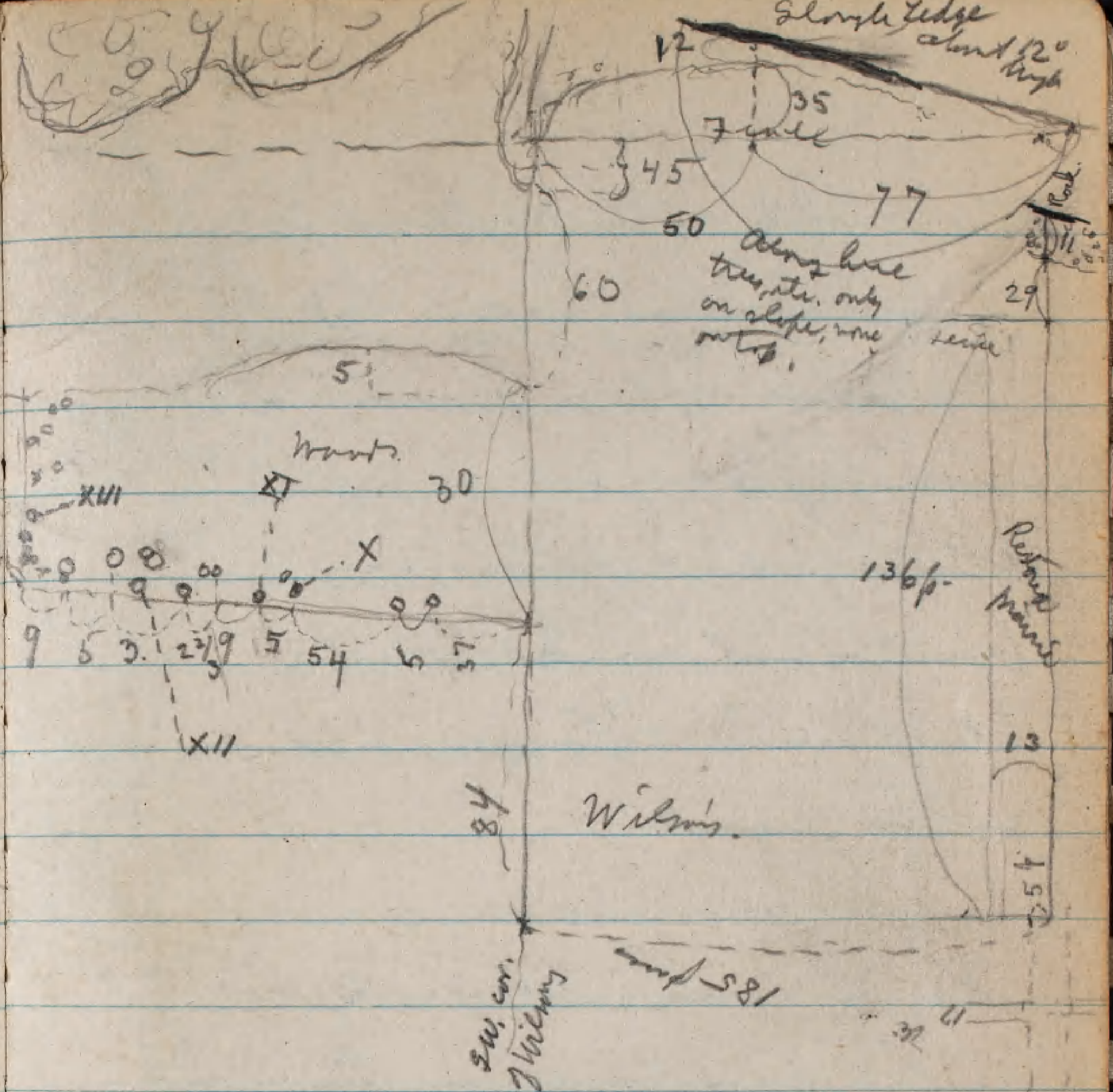
17<sup>th</sup> str N. E. 42 paces

all these four open fields <sup>are</sup> 1/4 mile

Oak X Q. ellip. 10 1/2' - Two trees - both with rotten scars  
Trunk terrible well up.

Oak XI - Q. ellip. 11' - Quite smooth-bark, Bushy &  
Low branching. Trunk soon deliquescent.

Oak XII - Q. ellip. 10' - Quite smooth-bark above.  
Lvs. & fr. Trunk soon forks



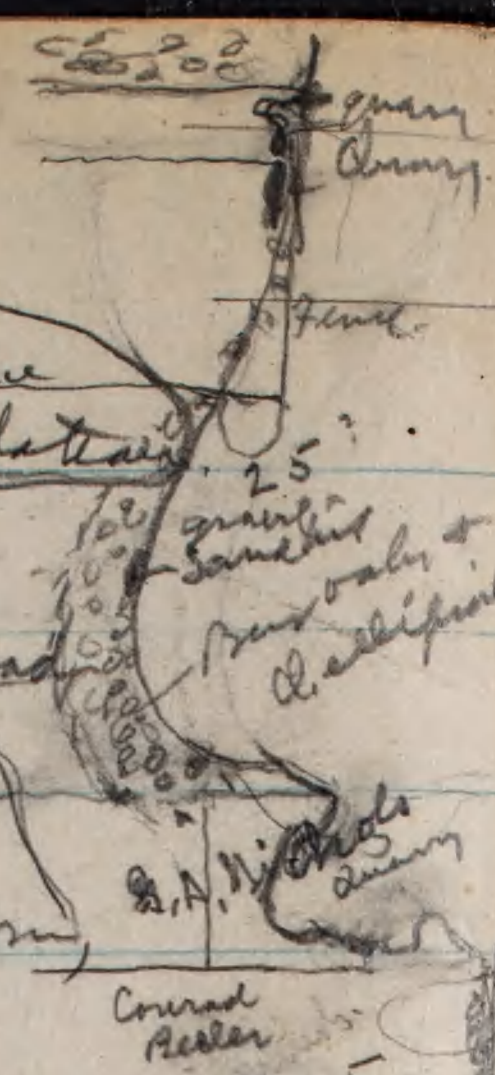
Oak XIII - Q. ellip. 8 in. Quite  
smooth-barked above. Lvs. & fr.  
Many dead branches below & on inner side  
This one shows trunk well up through crown  
These oaks are all rather low, bushy, soon branching,  
with many dead branches persisting. Bark  
dark, usually not very rough, - above smooth as  
in Red oak. They seem to be common in

5 1/2

The thickets on the Highlands Plateau  
 The low oak forms borders, etc.  
 It is in the more exposed places.  
 The Wilson cotton tree is  
 a mass of flowers, Aster multiflorus,  
 Aster agerifolius & Solidago rigida  
 being the most common. Collected  
 plants from this & the adjacent  
 native prairie.

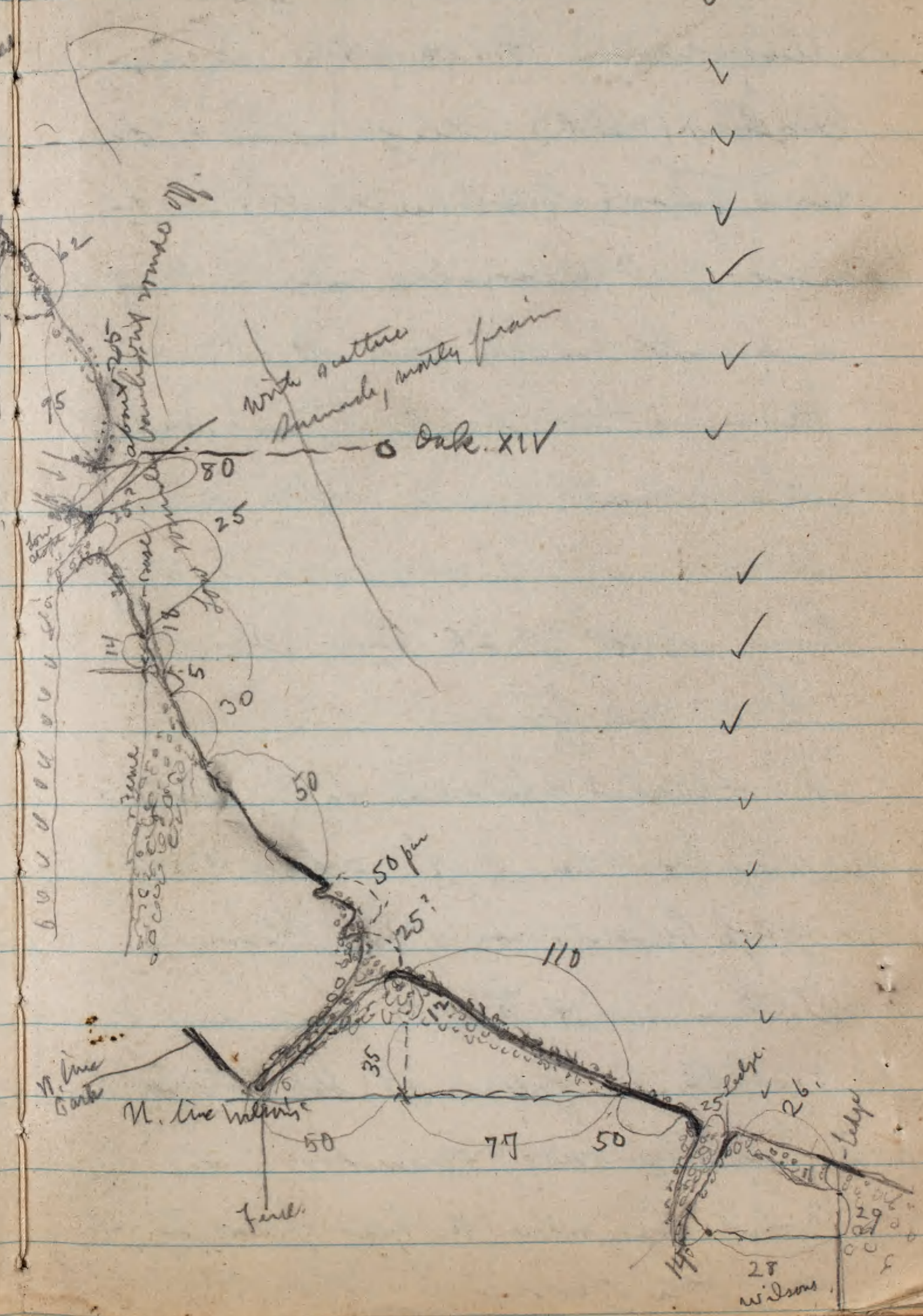
The upper end, Glass', etc, has  
 no banks or bluffs more than 8 or 10  
 ft high & more abrupt except  
 at two <sup>small</sup> quarries. The timber  
 above Glass' (to large grove) is only  
 in the slope of the bank.

At upper end make strip (at least  
 across first piece l. of grove, about 50  
 yds, then narrow to 100 ft. to place  
 next above Wilson's.



quarry  
Cherry

700 ft  
follow the  
feature S.  
to 700 ft  
then  
S.E.



Take in all the Keeler Timber  
at N. end.

On East side run only 50 ft. line  
& then widen<sup>(2)</sup> to 100 ft.

Oak XIV - Q. ellip. is on a low  
high place (blue low bluff) on E.  
side. One smaller spec. is N. of it.  
a small low oak just S.E.

It is a low, bushy tree, with  
rather smooth bark, & 10' diam.  
Dense crown, with a saw many stiff  
hard small dead branches.

Leaves & fr.

I collected plants in the prairie  
opening on the N.E. side, & a few  
swamp plants in Big Slough.

I then went to my prairie E.  
of RR. & found it partly pastured  
& partly cut over.

Collected only a few plants, &  
a few swamp plants.

Rode a wagon in auto & then took  
car for Mason Co. Caught the  
6:00 P.M. car for Clear Lake.

The day (afternoon especially)  
was clear, and with only a little  
wind.

Near Joe's garden, in rather  
low place I measured clumps  
of *Andropogon furcatus*.  
Tallest ones = 7 1/2 ft.

Spent evening in visiting  
with the folks at Joe's.  
Took care of some materials.

Sept. 12 - 1921 - Mon.

Packed some material (my basket & return materials) & left for Mason Co. at 10<sup>20</sup> am, got money, <sup>shipped</sup> ~~exp~~ <sup>per</sup> basket, got paper, barbits, etc. and at 12<sup>30</sup> went to Highland.

Oak XV - 9 1/2 in, many small dead (hard) branches. around lvs.

A very poor year for *Parasitic fungi*.  
Follow Slough NW & then cross to E side. Platter prairie, etc.

The Big Slough is very dry, & even S. of road where there is usually a big pond, it is now mostly mud flat.

The flat which I made

today is on next page (upside down).

I would suggest, for the East side, at N. end, about 100 ft., - or to 1/4 - 1/2 of sec. line, & then beginning opposite the N. line of Jane Dyer's tract, on same 1/4 line to where it enters Slough, thence SE. at least 50 yds. from top of bluff, to the Barney tract. Then 100 ft. to road.

Returned at 4<sup>30</sup> pm. & took 5:30 bus for Clear Lake.

Spent evening in packing. Packed box for Miss Cavangle, & a basket for "the Herbarium".

Retired at 1 am.  
(The plat & notes on next 4 pages were made before this page was reached.)

W  
↑  
S.

Lydian L. Lyons

C. Reader

Jane A. Byer

Alice R. Grant

The River crosses  
slightly

at this point 2 lines  
26 feet apart - my  
earlier measurements are to 9 m,  
but this is probably right.

Mary E.  
Wilson

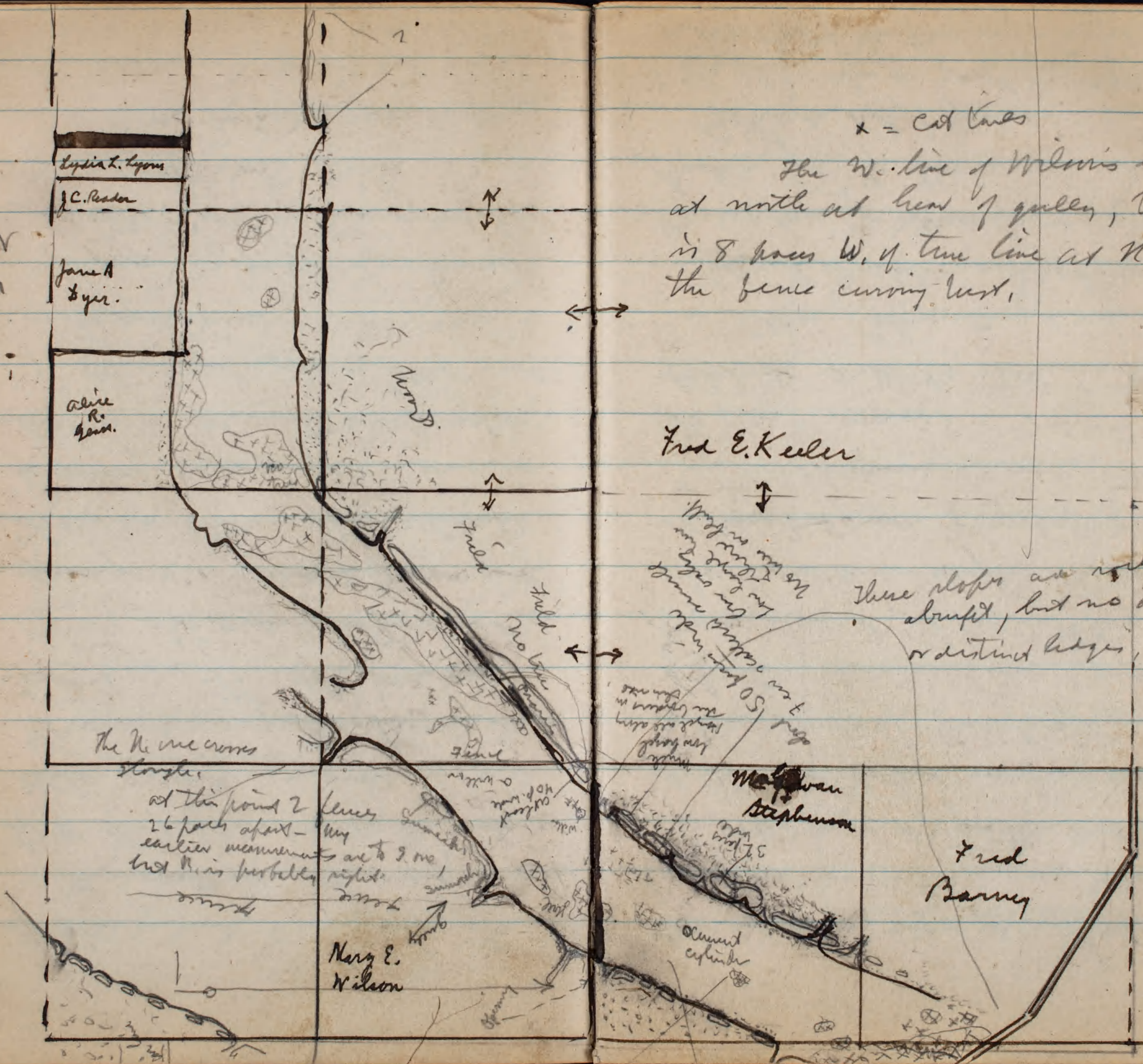
x = Cat Lines  
The W. line of Wilson's cuts  
at north at head of gulley, but it  
is 8 paces W. of true line at N. end,  
the fence curving west.

Fred E. Keeler

These slopes are not  
abrupt, but no striking  
or distinct ledges.

McGowan  
Stephenson

Fred  
Barney



The SW. side shows only interrupted  
bits of prairie 4-8 paces wide &  
these over covered mostly.

On NE. side the prairie <sup>reaches</sup>  
in layers  $\checkmark$  40-50 paces wide

On NE. side practically all  
spring are bordered (or walled) with  
low hazel, & occasional clumps  
are in opening.

Much has cut on NE. side

Also hazel, plum, bitter sweet  
hazelnut,

Lower end N. of road is crowded  
with Cat tails between one line  
& row

S. of road The pond is almost dry

The woods in E. part of Highlands  
are dense, largely bur oak, but  
some *Q. ellipsoides*. The latter  
low, bushy, with hard & stiff  
dead branches numerous.

Toward Big Slough, in tract  
E. of Highlands, there are a  
few white oaks, a good many  
basswoods, etc. This part of forest  
is more varied. See tree &  
plant lists of earlier days.

In the openings, especially on  
E. side, there were a good many  
branches of leaves of *Ranunculus*  
*fascicularis* & *Anemone patens* var., and  
a few *Viola pedatifida*. These  
all suggest spring.

This has been a dry season here,  
Joe says.

Sep. 13, 1921 - Tues. <sup>am</sup>  
Left Clear Lake at 6:54 for  
Milford. It is cloudy, & threatening  
rain.

Began to take notes w. of  
Sexton:

Kosuth co.:

- + Aster multiflorus fl. most common  
+ Solidago spicosa many fl.  
+ nemoralis fl.  
+ rigida fl.  
+ canadensis fl. - rather old.  
+ Helianthus grosseserratus fl.  
(Much is cut for hay.)  
+ Amorphia canescens fr.  
+ Aster laevis fl.  
+ (azureus) fl.  
+ Andropogon scoparius fr.  
+ ~~Sorghum~~ caudatum fr.  
+ Eleocharis acicularis fr.  
+ Spartina Michauxiana fr.  
Setaria - = +, and:  
Andropogon furcatus fr.  
(Fine-like warm grass.) fr.  
Aster ageratoides fr.  
Liatris pycnostachya fr.  
Typha latifolia fr.

*Melilotus alba* - fl. + fr.  
*Sorghastrum nutans* fr.  
*Cirsium discolor* fr.  
*Aster novae angliae* fl.  
*Artemisia ludoviciana* fr.  
*Vitis vulpina* lf.  
*Lupinus albus* fr.  
*Eragrostis ciliaris* fr.  
*Rudbeckia hirta* fl.  
*Silphium laciniatum* fl. (one)  
*Agrostis hyemalis* fr.  
*Helianthus maximiliani* fl.  
*Liatis scariosa* fr.  
*Lupinus albus* fr.  
*Petalostemum purpureum* fr.  
*Aster sericeus* fl.  
*Helianthus scaberrimus* fr.  
*Oenothera xanthiophylla* fr. (weed)  
*Helianthus annuus* fl. + fr. ("")  
*Ambrosia artemisiifolia* fr. (everywhere) ("")  
*Panicum virgatum* fr.  
*Lupinus albus* fl.

2506

Pale Alto ce

- \* 0 + Asclepias syriaca fl.
- \* 0 + Solidago rigida fl. + fr.
- \* 0 + " nemoralis fl.
- \* 0 + " canadensis fl.
- \* 0 + " speciosa var. angustata fl.
- \* 0 + Helianthus grosseserratus fl.
- \* 0 + " scaberrimus fl.
- + Asclepias pulcherrima gl. fl.
- \* 0 + Silphium laciniatum fr.
- \* 0 + Eryngium yuccifolium fr.
- \* 0 + Aster multiflorus fl.
- \* 0 + " laevis fl.
- \* 0 + " azureus fl.
- \* 0 + " novae-angliae fl.
- \* 0 + Liatris pycnostachya fr.
- \* 0 + " scariosa fr.
- \* 0 + Anaphalis canon fr.
- \* 0 + Andropogon furcatus fr.
- \* 0 + " scoparium fr.
- \* 0 + Elymus canadensis fr.
- \* 0 + Spartina Michx. fr.
- \* 0 + Eriogonum discolor fr.
- \* 0 Artemisia ludoviciana fr.
- Cylinder = + and:
- \* 0 + Oenothera biennis fl.
- \* 0 + Brainerdia angustifolia fr.
- \* 0 + Vernonia virg. fr.
- \* 0 + Lespedeza latifolia fr.
- \* 0 + (Kuhnia eup. var. fl.)
- \* 0 + Cirsium discolor fl.
- \* 0 + Zizia aurea fl.
- \* 0 + Helianthus scaberrimus fl.

Emmettsburg To Ruthven = 0 and:

- Vitis vulpina fl.
- Vernonia fascicularis fr. (low)
- Sorghastrum nutans fr.
- Melilotus alba fl.
- Helianthus maximiliani fl.
- Lepachys pinnata fr.
- Solidago canadensis fl.
- Ageratum hyemalis fr.
- Parthenium virginicum fr.
- Oxybaphus rufus fl.
- Mammillaria mollis fr.
- Desmodium canadense fr.
- Petalostemum purpureum fr.
- Scirpus atrovirens fl. (mossy)
- Zinnia (small) fl.
- Artemisia (dracunculoides) fr.

Clay co.

Ruthven to Menier - x and:

- Phragmites communis
- apocynum (canadensis)
- (mostly cut for hay)
- Reached Winifred at noon (belated)
- It was raining, & about 1 o'clock
- it poured for a while.
- I went up the track & found
- my old Liatris squarrosa place

all cultivated, with no trace of  
the Liatris,

collected other perennials (✓ two  
asters + *Hydrotum* from low places)  
plants along RR. + E.

Also several for sectioning  
(see "Wild flora" list).

Left for Spirit Lake at 4:22, +  
Spirit Lake for Ocheysdan at 6:25 PM.  
Put up at the little hotel.

Sep. 14, 1921, Wed.

Arose at 5:00 AM. Very wet +  
a heavy mist (drizzle). Got

box of section material out.

Started <sup>at 6:37 AM</sup> for the Mound. Roads  
are very slippery. A half  
mile east, at the turn S., a  
farmer took me in his Ford,  
clear to Mound, - a mile.

I found the Mound stripped  
bare by cattle. Picked up  
a few stunted remnants,  
*Anemone patens*, var. <sup>fl.</sup>, *Aster spicatus*,  
*Solidago visida*, <sup>fl.</sup> *S. nemoralis*, *Aster*  
*multiflorus*, <sup>fl.</sup> *A. scirpaeus* (the two last  
most abundant), *Bouteloua hirsuta*,  
*Andropogon furcatus*, <sup>fl.</sup> *Castilleja nuda*,  
(cf.) *Petalostemon purpureus*, *Salvia hali*, var. (see *Erigeron*  
*complanatus* + *Petaria virens*)

Saw a Burrowing owl - Its hole was near base  
on W. side of mound.  
*Aster viricus* showed the very hairy (not silky)  
root-leaves.

Hurried back to train, and at  
8:37 AM, for Granite.

Drizzly, foggy nasty weather!

Left at 8:47. - Between Delavan & Allandorp <sup>nearly</sup> all cut.

Between Allandorp & Sibley, Osceola co.

*Liatris pycnostachya* fr.  
*Glycyrrhiza canadensis* fr.  
*Aster multiflorus* fl.  
*Solidago nemoralis* fl.  
*Paricaria virginiana* fr.  
*Aster laevis* fl.  
*Andropogon furcatus* fr.  
*Aster multiflorus* fr.  
*Prenanthes aspera* fl. (rather large)  
*Helianthus grosseserratus* fl.  
*scaberrimus* fr.  
*Solidago rigida* fl. - old, mostly.  
*Arnica montana* fr.  
*Liatris scariosa* fl. & fr.  
*Melilotus alba* - fr. some fl.  
*Helianthus maximiliani* fl.  
*Solidago canadensis* fl.  
*Aster novae-angliae* fl.  
*Helopsis scabra* fl. (large)  
*Cirsium discolor* - fr. fl.  
Much cut over.  
*Solidago speciosa* var. ang. fl.

*Brannema <sup>arguta</sup>* fr.  
*Sibley* - (to colline)  
*Iva xanthifolia* fr.  
*Eryngium yuccifolium* fr.  
*Veronica virginica* fr.  
*Psalmion artemisia* fl. (large)  
*Apocynum <sup>canadensis</sup>* fl.  
*Lepachys pinnata* fr.  
*Maritima <sup>virginica</sup>* fr. (low)  
*Astragalus canadensis* fr.  
*Andropogon scoparius* fr.  
*Proserpinaca angustifolia* fl. (fr?)  
*Rosa pratincola* fr.  
*Cirsium <sup>canadensis</sup>* - fr.  
*Petalostemon purpureum* fr.  
*Lepachya capitata* fr.

*Aster novae-angliae* is not common.  
All the way from Mason City it  
occurs just here & there in  
small clumps, - usually  
on rather lower grounds.  
*Aster multiflorus* & *A. laevis* seem  
to be the dominant forms.

Lyon co.

Little Rock to State line.

- x0+ *Iva xanthiifolia* fr.  
• x0+ *Helianthus scaberrimus* fr.  
• x0+ " *grossus* fl.  
• x0+ " *Maximiliani* fl.  
• x0+ *Solidago rigida* fl. & fr. very common.  
• + " *nemoralis*  
• x0+ " *canadensis* ab fl.  
• + " *speciosa* v. *angustata* fl.  
• x0 *Ambrosia trifida* fr. - low  
• x0 " *artemisiifolia* fr. - very com. - waste  
• + *Achillea canadensis* (waste)  
• x0+ *Aster multiflorus* fl.  
• x0+ " *laevis* fl.  
• x0+ *Petalostemon purpureus* fr.  
• x0+ *Antennaria ludoviciana* fr.  
• x0+ *Clintonia canadensis* fr.  
• x0+ " *pycnostachya* fr.  
• x0 *Heliopsis scabra* fl. (few)  
• x0+ *Elymus canadensis* fr.  
• x0+ *Spartina Michxiantha* fr. (1- not low)  
• x0+ *Ambrosia scopulina* fr.  
• x0+ " *fusca* fr.  
• x0+ *Achillea canadensis* fr.  
• x0+ *Amorpha canescens* fr.  
• x0+ *Brickellia angustata* fr.  
• x0+ *Aster novae-angliae* fl. (low)  
• " *Silene latifolia* fr. (low)

Low-Kanran

After leaving Ellsworth, - from State line to Rock Rapids (Lyon co.) = + and:

- o *Silphium laciniatum* fr.  
• o *Lepachys pinnata* fr.  
• o *Cirsium discolor* fr. (low)  
• o *Chrysopsis complanata* fr. (low)  
• o *Silphium perfoliatum* fr. (low)  
• o *Symphoricarpos occidentalis* fr.  
• o *Lepachys capitata* fr.  
• x0 *Hibiscus eschscholoides* var. fr.  
Rock Rapids to Luster = o and:

- Euphorbia Preslii*  
*Panicum virgatum* fr.  
• x *Rosa pratincola* fr. (low)  
*Sisyrinchium montanum* fr. (low)  
*Prenanthes alba* fl. fr.  
*Petalostemon candidum* fr.  
• x *Eriogonum canadense* fr.  
• x *Stemodia linaria* fr.  
*Monarda mollis* fl.  
Luster to Larchwood = x and:  
*Helianthus annuus* fl. fr.  
• *Cirsium canescens* fl.  
*Aster sericeus* fl.  
*Asclepias syriaca* fr.  
Larchwood to Granite = x and:  
*Monarda alba* fr.  
*Silene alba* fl.

Reached Granite at 11<sup>15</sup> A.M.

Left a part of my baggage at the station, and walked to the Sioux

Quartzite exposure in NW. cor. of the state.  
Stopped on the gravelly ridge  $\frac{1}{2}$  mi.  
W. of Granite (S. of creek) and collected  
*Artemisia frigida*, etc. Saved seed  
for picking & sections. Collected a lot  
of plants.

Went on to E. & W. road a part of mile  
(fractional section) S. of state line, & went  
west on this road to Big George river.  
A bridge here crosses, & a road leads  
along river to Sixe Quartzite.

I worked on the Quartzite area from  
1:45 PM to 4:15 PM. Collected a lot of  
plants, & saved some for sections.

*Opuntia fragilis* and *Sclaginella* are  
very common. *Woodia scopulina* is  
showing a second crop of fruiting  
bracts. Not so abundant as once  
upon a time.

I found a few trees & shrubs right on  
the ledge:

*Fraxinus*  
*Silva americana*  
*Acer negundo*  
*Bassia virginiana*  
*Ribes gracile*  
*Quercus macrocarpa*

In the shade of these were a few  
tender plants. Also collected a few  
water plants <sup>or near</sup> in the pools.

Most of the plants are prairie  
plants scattered about in the  
crevices and between the blocks  
& ledges of Quartzite. Most of  
these plants were stunted.

I saw one *Vitis vulpina*, but it was  
just out of reach at Jasper Pool.

The distinctly rock species were:

<i>Opuntia fragilis</i>	<i>Woodia scopulina</i>
<i>Talinum</i>	<i>Polygonum tenue</i> (?)
<i>Sclaginella rupestris</i> fr.	
<i>Agrostis canadensis</i>	

There were also several species usually  
found on gravelly, dry ridges, etc., such as:

*Chrysothrix villosa*  
*Liatris punctata*

Lichens are very abundant, but I saw  
nothing new. The mosses are fresh  
but only <sup>one</sup> was beginning to fruit. It had  
been very dry, & the recent abundant  
rains were too recent.

Lost my large pocket-knife.  
It drizzled a little several times  
during day + evening, & was cloudy  
and cool all day.

I found that the Sioux Quarter  
area is fenced in, but a gate  
at NW corner is wide open, & it is  
evident that stock has been in.

The Opuntia grows with curious elongated  
joints where crowded.

I then went E. to the old exposure  
E. of road. This is now all pasture,  
but much of the old floor persists  
in the crevices.

Collected a few plants on the  
prairie nearby, & a few on the  
rocks. Still saw *Opuntia* &  
*Sclerophylla*. *Bouteloua oligostachya*  
is very common here, as it is  
in the river exposure.

Returned at 6:15 Pm. & had to wait  
alone, at a dark station, for the Sioux  
Falls train due at 9:55 until  
about 11:35! A dream, cheerless  
wait! Flashed train with my  
flash light.

Reached Sioux Falls after midnight  
& put up at the Cataract Hotel.  
Packed section material, etc., & retired

at 1:30 AM

Sep. 15, 1921, Thursday.

Was called at 5:45 am. & took the 6:20 Milwaukee train for Westfield.

It is still cloudy & somewhat drizzly, as yesterday.

Mr. E. O. Thorne was at station at Abcon & I got off, & we drove to Joy creek, - he and I, only.

It has been raining recently, and fungi were in good condition.

We collected woods plants along the lower (S.E.) part of the valley, then went up on prairie hills.

Collected a lot of plants.

We also followed the valley S. of Joy cr. & found many

fungi, especially on cottonwood logs. Also found *Shepherdia*.

We found a coyote in a

trap. We were lead to it by occasional pitiful howls. In the evening Thorne returned with young farmer to kill it.

This Joy cr. region is one of the wonderful spots of Iowa. Its wooded valleys set among high level prairie hills form a remarkable picture, and a walk in the deep wooded valleys gives one the impression of being in an endless forest. The fine clear stream, Joy cr., comes chiefly out of beds of gravel overlying a Cretaceous shale, and underlying Kansan drift. They are evidently Aftonian. In some places they show Mn. Dr.

Thoron proposes a dam in lower part of valley & form lake. This spring creek would certainly be a fine feeder for a lake.

This should be a state park.

During our walk up the creek valley, while in the woods, I also picked up a number of snails:

*Polygyra monodon*  
*Pyramidula alternata*  
*Zonitoides arborum*  
*Bipolaria arnulfiana*  
" *contracta*.  
all now recalled. See set.

We returned in evening & I sat up with Thoron until 1:40 a.m. packing plants.

The day was cloudy, but free from rain until very evening as we were coming into Akron.

Sep. 16, 1921, Friday.

I arose at 7<sup>30</sup> and mailed my package of plants.

We drove out at 10<sup>15</sup> a.m. Thoron & two other brothers. It drizzled a little as we started, but later cleared up, and the day was fine. The wind on the hills was strong.

We worked both prairie & forest again, and I added fungi, especially.

Near upper part of main Jay cr. valley an alluvial bank of clayey stuff contained scattered shells. I dug in and found that they are not merely surface shells. The bank is now several feet

above the present creek bed.

I packed a basket of fungi, seeds & acorns, & sent it out from Akron by express.

Jefferson, Neb., lies opposite. The men say that there is there a large Catholic church & parochial school, and that the public school is reduced to a one-room, one-teacher insignificant affair.

[This reminds me that at Milford young Dr. Smith told me that my high school com. address at Akron (June 5) did not please the local friends.

A few days after at a parochial school function he sat beside a lady friend of the doctor's,

and criticised my argument that at least during a part of its life every child should attend the public school. The lady and her family, however, being more liberal Catholics, favored my view!)

On the return to Akron I went at once to Station (after 6 PM) & packed & arranged to leave.

Left for Harwooden at 7:05 <sup>on arrival</sup> & put up at the Gladstone Hotel. Went to bed early to prepare for leaving at 3:05 AM! (Saw some fine *Mentzelia* on the hill above Jay cr.)

Sep. 17, 1921 Sat.

Left Hawarden at 3:05 AM,  
for Missouri Valley.

The sky is clouded, & it  
looks like rain.

Between California Jr. & Mo.  
Valley I noticed Helianthus  
Maximilianii in good condition,  
flowering. Quite abundant.

Had Colver's jitting take me to  
Blair City. The cost was \$3.50.

I found Lygodesmia rostrata, but  
well along, - mostly without lvs. &  
in fruit. Found one with  
pink flower. Grasses are quite  
numerous, & Cassia chamaecrista seems  
to overrun everything, leaving the  
dunes less bare. Cercocarpus is  
abundant and Troublesome.

Returned a little after 11 AM.  
& went up on the prairie ridge  
above Smith's old brickyard (the  
big cut.). I found the flora  
far advanced, and everything was  
very dry. Aplopappus is abundant  
and in fruit & flower. A good  
many Lygodesmia juncea  
had flowers, - seemingly a  
second set. Collected a lot of  
plants, some for sections.

Packed the section material &  
mailed it at Mo. Valley.

Left Mo. Valley at 3:05 for  
Carroll. On the way I  
arranged two packages of  
plants, and finished the  
lot on arrival at Carroll.  
Had to hurry to get packages

of plants into the post office.  
Left Carroll via C. Great Western for  
Bozota at 7<sup>28</sup> PM. (due at 7<sup>13</sup>.)

The sand dunes at Blair Bridge  
show chiefly grasses & Leguminous  
plants. Of the latter *Cassia chamaecrista*  
is most prevalent. Saw also  
*Strophostyles pinnatifidus*, *Crotalaria*  
*sagittata* (quite common; in fruit), also  
of Compositae: *Helianthus annuus*,  
*Solidago canadensis*, *Lycopodium*  
*complanatum*, *Lactuca scariola*, *Lactuca* —

Met Joe & Emma, and family &  
drove to Shavers.

Sep. 18, 1921 Sat.

Wrote notes and visited. After noon  
we drove to Bowman's Grove  
(see map for course). On the  
way noted particularly the following:

Deep ravine — woods  
In river. SW. cor. r. 29 <sup>Polk Map</sup> Hackberry, Ash,  
Elm, green ash, Pignut, Basswood,  
*Rhus glabra*, *Catalpa* <sup>indica</sup>,  
*Ribes gracile*, Red Elm, Walnut,  
*Corylus am.*, *Rhamnus lanceolata*,  
*Eurogymna alba*, *Q. macrocarpa*,  
*Prunella*  
*Amelanchier* 5 ft. high; *Prunella* <sup>sp.</sup>,  
*Amelanchier* <sup>sp.</sup>, *Vitis* <sup>sp.</sup>,  
Pine Elm, *Xanthoxylum* <sup>sp.</sup>,  
*Prunella* <sup>sp.</sup>, *Prunella* <sup>sp.</sup>,  
*Rhus toxicodendron*,  
*Salix* <sup>am.</sup>

We drove around Bowman's  
Grove, and went in from

The south. Hogs and cattle have cleaned the grove of smaller plants, but the logs showed fungi and slime-molds. I collected some from an *A. Elm* log and several Basswood logs.

We returned after dark. The day was clear and beautiful, and gave little promise of the rain that came at night, excepting for the fact that the wind was from the east.

Took care of material and visited a little in the evening.

Sep. 19, 1921 Monday.  
Had planned to drive to Audubon co., but it was raining, and rained most of the forenoon.

I wrote notes most of the day, and cared for slime-molds, etc. Wrote also all evening, putting my Audubon and Shelby notes in order.

Sep. 20, 1921 - Tues.  
We started for Audubon co. at 9<sup>45</sup> AM. The notes on this trip are in another note-book.

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Oct. 5, 1921, Wed. 9:05  
Left for Mayfield at 8:30 AM

A beautiful, clear day, with  
a fair breeze from the S.E.

A real frost came last night  
(there was on the night before), but  
very little damage has yet been done.

Below Hills, where RR right of  
way had been cultivated the  
mud's rough weeds have  
proven.

The drainage ditches both  
W. & E. of Hills have  
their embankments, etc. one  
mass of noxious weeds - Ragweed  
dominant.

Dropped off at Cedar River bridge.  
Collected in the Opuntia  
sandy opening. Saw here a *Pteris*

*tripolia* in fr.

Collected a few plants on the  
sandy prairie along RR, E.  
of bridge, & cut toward  
sandy bank and *Aphragum*  
bog. Collected parasitic fungi,  
section material, etc. In the  
sandy woods at *Aphragum*  
bog I collected *Catharinea*.  
There are three lots: The top  
lot (this will be removed) is from  
sandy bank above the first  
spring; the second is in  
open sandy woods at edge  
of swamp, beyond *Aphragum*  
bog, & the 3<sup>rd</sup> is from woods  
sandy bank near the fence  
near bog in which *Agrostis*  
*hariflora* grows.

21  
16  
14  
51

12  
29  
41

I also collected *Lysostoma* on the  
sandy ridge (old place) & also  
in sand dunes E. of Shunk  
Cabbage bog. Collected leaves &  
acorns of one *Q. velutina* on  
sandy bank above Shunk  
Cabbage bog. Also live fr.  
of *Mocker nut*. Several  
are in sight.

Collected *Verbesina stricta*, *V.*  
*angustifolia* and *V. stricta* on  
same sandy bank.

Collected nest on *Panicum*  
*virgatum*.

Reached Mayfield at 6 PM &  
left for Muscatine at  
6:40 PM.

Went to Hotel Muscatine.

Oct. 6, 1921 - Thurs.

Left Muscatine for Iowa at 7:25 AM  
Wahkiakum to Sand Mound, to private road  
1/2 N. of Co. line, into Louisa.  
Went sandy prairie slope S. of  
this half mile line is now largely  
covered with *Artropus canadensis* (3)  
(see spec.) It has either been  
pastured or cultivated.

Almost everything is dry &  
gone. Few asters.

I went E. to the large sand-  
grass patch, & then worked  
the slope (in Louisa co.) of  
the sand mound.

I found my *Phytolacca* mostly  
in fruit (few flowering) &  
a number of the greener  
plants showed a karwins

fungus on calyx and leaves.  
In many cases the fungus  
erupted first on the calyx, the  
others being still under epidermis.  
Found a few *Trichos cylindricus*  
in fr.; *Fraxichia*, *L. scariosa*,  
*Kulpa*, - in fact most things  
were in fruit.

I walked back to Fairland,  
collecting *Helianthus petiolaris* (bottle  
fl. & fr.) and *Agropyron Smithii*  
(old fr.).

After I waited about for a  
time a truck-driver took me  
to Muscatine (4<sup>45</sup> PM). I left  
at 7<sup>45</sup> for Davenport, & thence  
to Iowa City.

## Suggestions.

Many plants make provision for growth by shedding leaves. Is the stem then protected?

*Lygodesmia*

*Cycloloma*

*Aster multiflorus*

*Lepidium apetalum*.

Stratified plants, <sup>of species</sup> not belonging to a xerophytic area may appear upon it here & there. - some protection.

Or, during very favorable seasons, same thing occurs.

Problems - those which have to do  
with factors which influence  
plant growth.

Cultivated plants influenced as  
native plants.

---

Prairie - -  
Fires - openings -

*Q. v. depressa*

*Dalea cuneata*

" *alopecurides*

*Chryopsis*

*Grindelia*

*Cypripedium*

*Cacalia*

*Iris*

*Habenaria*

*Sporobolus cryptanthus*

"  
*Panicum*

"  
*Isanthus*

*Crotalaria*

*Yucca*

*Mentzelia*

*Oxytropis*

*Astragalus caryocarpus*

"  
*Senecio*

*Opuntia*

*Woodia*

*Polygonum Douglasii*

" *terre*

*Lycopodium gracile*

" *rotundifolium*

*Aquilegia*

*Gerardia aspera*

" *auriculata*

*Houstonia angustifolia*

*Brunneria*

*Aristida basilaris*

*Ranunculus rhomboides*

Sep. 9, 1921 - Lyle to Mammy (no tax) 1.06  
 " " " with tax 1.14  
 Mammy City - stamps 50 RR. to Clear Lake 70 1.20

Sep. 10, 1921 - Mammy City & return .70  
 Tooth-brush & paste .90

Sep. 11, 1921 - Mammy City & return .70  
 Car fare 20 lunch & breakfast 10 gum 10  
 1.50 soda 1.60  
 Box candy

Sep. 12, 1921 - Car fare 35 lunch 51 car fare 20 1.06  
 2 baskets 30, fruit 1.05 soda 20 1.55  
 Parcel 15, Twine 40, bus to Clear Lake 25 .80

Sep. 13, 1921 - RR. fare Clear Lake to Milford (no tax) 3.75  
 Dinner, Milford 50 - Mrs. 25, gum 15 .90

RR. to Spirit Lake (no tax) 2.7  
 RR. to Odeysdam (no tax) .82  
 Supper " .35

Sep. 14 - Room 75 breakfast 35 lunch 10 (2 meals) 1.70  
 RR. to Granite 2.12  
 RR. to Sioux Falls .48  
 Taxi " 1.50

Sep. 15 - Breakfast 15 Taxi 50 Caterer Hotel 1.75 2.40  
 RR. to Westfield (no tax) 2.31

Sep. 16 - Postage, parcels & plants, Akron 30 .37  
 Lunch 30 basket 20, Thorsonville 50 1.00  
 Lunch 25, express on basket 62 gum 10 .97

RR. to Harwarden (no tax) .47  
 Taxi - " .50

Sep. 17 - Hotel Gladstone " 1.50

RR. to Minn's Valley (no tax) 4.30  
 RR. to Carroll (no tax) 2.56  
 Dinner at Restaurant 45, sodas 28 papers 10 .83  
 E. C. Colver, living to Blair bridge 3.50  
 Lunch 15, mail 18 + 12 .45

55

29  
 12  
 91  
 36  
 286  
 1476

2.94  
 1.48  
 1.46

Schmidt's restaurant

RR. Carroll to Postum (Ged. fare no tax) .81  
 Postage - Carroll (plants) 25 lunch 25 .40  
 Candy for children 75 soda 10 .85

Bayfield, Ill. Oct. 5, 1921

RR. to Bayfield (no tax) \$1.19

Lunch (Dr. G.) .45  
 RR. to Muscatine .28

Oct. 6 - Hotel Muscatine, room 1.75  
 Breakfast 35 lunch 50(2) .85

RR. to Fruitland .23  
 RR. to Muscatine .23

RR. to Davenport (no tax) .99

RR. to Iowa City ( " " ) 1.95  
 Taxi - Iowa City .50

*Brauneria* — Mo. Valley 9/17  
*Artemisia frigida* Granite 9/14 1921  
*Acerates*  
*Agropyron tenerum*  
*Agrostis alba* var.  
*Allium stellatum* Milford 9/13 1921  
*Andropogon scoparius*  
" *ovatus* Mo. Valley 9/17  
*Anemone patens* var. Big Blough 9/11 1921  
*Aedipia sullivanti* Milford 9/13 1921  
" *verticillata* " 9/13 1921  
*Aplopappus* Joy cr. 9/16 Mo. Valley 9/17  
*Aster ptarmicoides* Granite 9/14  
" *oblongifolius* — Big Blough 9/11 1921  
*Bouteloua hirsuta*  
" *curtipendula* Joy cr. 9/16  
" *oligostachya* Granite 9/14 1921  
*Campanula rotundifolia* — Herper 9/8 1911  
*Carex*  
"  
*Ceanothus ovatus pubescens* Mo. Valley 9/17  
" " — McGregor, 9/7 1921  
*Cissamp arvensis* Granite 9/14  
*Coricopsis palmata*  
*Corydalis*  
*Crotalaria* Blair Co. 9/17

*Houstonia aurea*? — Mo. Valley 9/17  
*Chrysopsis*? (broader lvs) Granite 9/14  
*Chrysopsis villosa* Granite 9/14  
*Dalea* — Mo. Valley  
*Delphinium*  
"  
*Elymus*  
*Erythronium mesochoreum*  
*Euphorbia* — mainly erect — Blair Co. 9/17  
*Euphorbia marginata* Joy cr. 9/15  
" *heterophylla* Blair Co. 9/17  
*Galium boreale*  
*Gaylussacia resinosa* — McGregor, Sep. 7, 1921  
*Gentiana alba*  
" *andrewsii*  
" *puberula* Granite 9/14  
Joy cr. 9/16  
*Geocordia aspera* Granite 9/14  
*Helianthus annuus* Mo. Valley 9/17  
" *maximiliani* Milford, 9/13 1921  
*Iris caerulea* — Big Blough — 9/11 1921  
*Liatis cylindrica*  
" *punctata* Granite 9/14 1921  
" *squarrosa*  
*Lespedeza leptostachya* Milford 9/13 1921  
*Lathyrus venosus*  
"  
" *palustris* Milford, 9/13 1921  
*Liatis punctata* Mo. Valley 9/17

*Lygodesmia juncea* Mo. Valley 9/17  
" *rotunda* Blair Cr. 9/17.

*Lepachys columnaris* Granite 9/14

*Lilium philadelphicum*

*Linum*

*Lithospermum angustifolium* - Big Slough 9/11/1921

"

*Lobelia*

*Oenothera serotina* Big Slough 9/11/1921

*Oenothera occidentalis* - Big Slough 9/11/1921

*Oxytropis Lambertii* Granite 9/14 J. J. 9/13

*Panicum*

"

*Pentstemon* *gracilis?* Granite 9/14

*Physalis*

*Poa*

*Polygala*

*Potentilla tridentata* Hesper 9/8/1921

"

"

*Prenanthes*

*Prunella pumila* - Hesper 9/8/1921

*Symphoricarpos occidentalis* Mo. Valley 9/17

*Polygonum Douglasii* - Hesper, 9/8/1921

*tenue* - Hesper, 9/8/1921.

*Ranunculus fascicularis* - Big Slough, 9/11/1921

*Solidago speciosa* v. *augusta* Milford 9/13/1921

" *missouriensis* Milford 9/13/1921

" *laucolata* Milford 9/13/1921

*Sorghastrum nutans* Mo. Valley 9/17

*Spartina*

*Spiranthes* - Big Slough - 9/11/1921

*Lepidosia*

*Talinum* - Granite 9/14/1921

*Verbena*

"

*Veronica novborum* Mo. Valley 9/17

*Vicia*

"

*Viola*

*Woodsia scopulina* Granite 9/14

*Zygadenus*

Grass 1 - Hesper - A.P. 33 - Large, sharp-pointed

" 2 - " " Fine. also Mo. Valley 9/17

Rush 3 - " " - Juncus.

Grass 4 - (Fine topped) - Big Slough - 9/11/1921

Grass 5 (coarse) - Granite 9/14

" 6 (fine, long hoods) Blair Cr. 9/17

" 7 - like fine *Phacelia* *crystallina* Blair Cr. 9/17

McGregor School of Wild Life  
Program - 1921

Sunday, Aug. 7.

2<sup>30</sup> PM. - Address: Rev. A. L. Murray, <sup>cedar</sup> Rapids  
<sup>response to welcome by</sup> <sup>Wagon Lighter</sup> <sup>Shimuk</sup>  
8<sup>00</sup> PM. - Address: Prof. S. W. Strobey. <sup>Nature's Fascinating</sup> Appeal.

Dr. H. C. Oberholser, "Economic Value of Bird Life."

Monday, Aug. 8.

10:30 - Address: Dean Kay.

2:00 - General Excursion to Lookout.

8:00 -

Tues., Aug. 9 - Government Day,

<sup>R. L.</sup> Oberholser, <sup>Fairport, Ia.</sup> Barney, <sup>Director</sup>, Harlan, Kay  
and McDonald talked.

8:00 - Film - Niagara Falls.

Wed., Aug. 10.

9:30 - Keyes, Shimuk (Oak object lesson)

2:00 - Pike's Peak, all.

8:00 - Strobey, Weeks.

Thurs., Aug. 11.

A. M. & PM. Kodak day.

8:00 - Oberholser,

Fri., Aug. 12

9:30 - Weeks, Keyes.

2:00 - Special Excursions.

8:00 - Strobey, <sup>Fungi</sup> Shimuk (Possible work here. - Alluvial.)

Sat., Aug. 13.

8:30 - Trip to Clayton.

3:00 PM. - Oberholser, Keyes.

8:00 PM. - Bennett. McGregor etc

Sun. Aug. 14

12:30 - Picnic Luncheon.

1:30 - "Kay" The Contribution of Geology to  
Religious Thought.

8:00 - Shirling - Trees, shrubs, etc.

Mon. Aug. 15.

9:30 - Kay.

2:00 - Pike's Peak.

8:00 - Shimuk, Kay. <sup>Plant Habitats</sup> Antiquity of Man.

Tues., Aug. 16.

9:30 - Weeks, Shimuk (Common Names)

2:00 - McDonald, Shimuk (Composites)

8:00 - Shirling, Bennett.

Wednesday, Aug. 17.

9:30 - Weeks, Keyes.

2:00 - Special excursions

8:00 - Oberholser, Shimel (Prairies)

Thursday, Aug. 18.

9:30 - Oberholser, Weeks.

2:00 - Special excursions.

8:00 - Keyes. — Business Men Dinner

Friday, Aug. 19

9:30 - Round-up.

2:00 - Special excursions.

Evening - Community picnic.

Mounds at Ohobaji. —

1 - On the ridge in the Big Loop of the Little Sioux.

2 - At Arnold's Park - E. of road across Harrows. Mr. Hazard's garden.

3 - On point, or peninsula, on E. side between Middle & Lower East Lake.

4 - At Orleans.

(Potter)

Prairie openings above No. Mc Gregor.

*Amorpha canescens*

*Achillea millefolium*

*Asclepias*

Hill No. 6 No. Mc Gregor.

*Acer saccharum*

*Amorpha canescens*

*Betula alba* v. *papyrifera*

*Carya ovata*

" *cordiformis*

*Corylus americana*

*Cornus paniculata*

*Crataegus mollis*

" *punctata*

" *"tomentosa"*

*Fragaria pum.* v. *lanceolata*

" *nigra*

*Hydrangea arborescens*

*Juglans cinerea*

" *nigra*

*Juniperus virginiana*

*Lonicera sullivanti*

*Menispermum canadense*

*Ostrya virginiana*

*Populus tremuloides*

*Prunus virginiana*

*Prunella quinquefolia*

*Physocarpus opulifolius* <sup>v. *var.*</sup>

*Quercus rubra*

" *alba*

" *Muhlenbergii*

" *macrocarpa*

*Ribes cynosbati*

" *gracile*

*Rhus glabra*

" *typhina*

" *toxicodendron*

*Rubus idaeus* v. *aculeatissimus*

" *occidentalis*

" *allegheniensis*

*Salix discolor*

*Sambucus*

*Tilia americana*

*Ulmus fulva*

*Viburnum dentatum*

*Vitis vulpina*

*Xanthoxylum americanum*

Low ground along river 8/4/907

Salix longifolia  
 " nigra  
 " amygdaloides  
 Populus deltoides  
 Acer saccharinum  
 " negundo  
 Sambucus canadensis  
 Amorphia fruticosa

1920.

Plants on St. Peter I.S. opening on high

Andropogon furcatus	Gerardia aspera
" scoparius	Hieracium canadense.
Aster oblongifolius	Helianthus tuberosa
Arabis   canadensis	Helopsis scabra
Agrostis alba var.	Lithospermum canescens
Asclepias syriaca	Lepachys pinnata
" verticillata	Lespedeza capitata
Asparagus officinale	Lactuca canadensis
Ambrosia artemisiifolia	Liatris scariosa
Apocynum androsaemifolium	Melilotus alba
Bontelona curtipendula	Petalostemum purpureum
Comandra umbellata	Phlox pilosa
Desmodium canadense	Pycnanthemum
Eupatorium altissimum	Physalis pubescens
Euphorbia corollata	Quercus macrocarpa
Elymus canadensis	" Michauxiana
Erigeron annuus	Rosa
Galium boreale	Rhus glabra
	Sorghastrum nutans

Anders.

	mm.	mues	right
	1		1
	11		1
	11		1
	1		3
	6		

*Solidago nemoralis*

*Steironema ciliata*

*Sisymbrium* (lost)  
*canescens*

*Vitis vulpina*

*Viola papilionacea*?

*Veronica virginica*

L. Blizard - wants formula  
for killing Canadian Thistle

# Expenses to Dyer'sville, Michigan, etc.

Sep. 3 - Parcel post to Clayton (bus)	.14
" " " Stacyville	.15
Express (suit case bag) to McGowan	1.18
" (baggage) to Mason City	.61
Taxi, Mason City	.35
R.R. to Cedar Rapids (not tax)	.96
Lunch "	.45
R.R. to Delaware (not tax)	2.09
R.R. Delaware to Dyer'sville (not tax)	4.2
Sep. 4 - Dyer'sville House - room	1.25
Wesley Wilder drive to Stacyville	3.00
Sep. 5 "Hotel" Millville 2 meals & bed	1.00
R.R. Turley, Pa. to Clayton (60c)	.65
Parcel post	.47
Lunch, Clayton	.10
Boys, Clayton	.33
R.R. Clayton to McGowan	.15
Sodas	.35
Sep. 6 - Lunch	.15
Pruning miss	.75
Papers	.10
Barber	.25
Sep. 7 - Lunch	.40
Sodas	.15
Repair shoes	.60
Twine	.10
Parcel post (2)	.48
Sep. 8 - Dyer's Hotel, 3 nights & 6 meals	7.50
Express, basket to L. Blizard	.55
R.R. to Decatur (not tax)	2.03
Wm. Wacker, suit to L. Blizard	5.00
Lunch -	.25
R.R. to Charles City (not tax)	2.16
Transfer	.25
R.R. to Stacyville	1.45

Aug. 6, 1921 - RR. to Cedar Rapids - no tax 96  
 " " " " with tax \$1.04  
 Transfer baggage Cedar Rapids - .30  
 Taxi - Iowa City .50  
 RR. Cedar Rapids to Postville - no tax 3.56  
 " " " " tax 3.84  
 Lunch Postville .38  
 RR. Postville to McGregor - no tax .94  
 " " " " with tax 1.02  
 Aug. 7 - Shave, Hotel Grinnell 2.10  
 Aug. 8 - Breakfast and room 1.40  
 Registration - Union T. 2.00  
 Aug. 9 - Meats<sup>25</sup>, shoes<sup>5</sup>, paper<sup>5</sup>, gum<sup>15</sup> .50  
 Aug. 10 - Paper<sup>20</sup>, newspaper<sup>5</sup> .25  
 Aug. 11 - Ferry charges<sup>2.75</sup>, bridge toll<sup>20</sup> 2.75  
 Water melons<sup>50</sup>, Or. Oberholser, expense<sup>45</sup> .95  
~~Aug. 12 - Paper .50~~  
 Aug. 14 - Lunch .50  
 Aug. 15 - Fruit for lunch<sup>30</sup>, root beer<sup>21</sup> .51  
 2 tubes of glue<sup>15</sup>, soda<sup>7</sup>, almonds<sup>20</sup> .22  
 Aug. 18 - Soda<sup>14</sup>, supper<sup>15</sup> 1.31  
 " 19 - Lip<sup>10</sup>, soda<sup>21</sup> 1.26  
 " 20 - Baggage<sup>50</sup>, postage<sup>21</sup>, breakfast<sup>50</sup> 1.21  
 Lunch<sup>15</sup>, soda<sup>14</sup>, fruit<sup>32</sup>, soap<sup>30</sup> .91  
 RR. to Cedar Rapids, no tax 5.97  
 " " " " Tax 6.45  
 Transfer " " .75  
 RR. to Iowa City - tax 1.04 42.0  
 RR. " " " no tax .96  
 Taxi " " .75

The Society for Visual Education.

Gilmore  
 (Plants used by Indians)  
 about 3 yrs.

Bureau of Ethnology

Prof. C. R. Keyes  
 Papers - Lower Paleolithic  
 Nebraska from Wam.

Miss Miller, American

Miss Miller  
 Wells  
~~to~~  
 Chisling  
 B.S.  
 Oberholser

Miss Miller  
 Oberholser  
 (Wam.)

Bennett \$1.00  
 Fowler 1.00  
 Oberholser 1.00  
 B.S. 1.00  
 Key 1.00  
 Chisling 1.00  
 Keyes 1.00  
 6.00

Cruelty  
 Conflict in nature

Laid on 1921  
 Oberholser  
 Oberholser  
 Oberholser  
 Oberholser  
 Oberholser  
 Oberholser  
 Oberholser

Thianthophora  
 (= peduncula)

Extent of field.

Collections  
 etc.

Cruelty

